

```
for (const auto& t : all_vector_types) {  
    ^  
/home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/function_signature  
s.h:559:22: error: range-based ‘for’ loops are not allowed in  
C++98 mode  
    for (const auto& t : all_vector_types) {  
        ^  
/home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/function_signature  
s.h:560:20: error: ISO C++ forbids declaration of ‘u’ with no  
type [-fpermissive]  
    for (const auto& u : all_vector_types) {  
        ^  
/home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/function_signature  
s.h:560:24: error: range-based ‘for’ loops are not allowed in  
C++98 mode  
    for (const auto& u : all_vector_types) {  
        ^  
/home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/function_signature  
s.h:561:59: error: no matching function for call to  
‘stan::lang::function_signatures::rng_return_type(const int&,  
const int&)’  
    add("inv_gamma_rng", rng_return_type<double_type>(t, u), t,  
u);  
    ^  
/home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/function_signature  
s.h:561:59: note: candidates are:  
In file included from /home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/ast.hpp:65:0,  
        from /home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/ast_def.cpp:7,  
        from lang_ast_def.cpp:18:  
/home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_  
signatures.hpp:273:17: note: template<class T>  
stan::lang::expr_type  
stan::lang::function_signatures::rng_return_type(const  
stan::lang::expr_type&)  
    expr_type rng_return_type(const expr_type& t);  
    ^
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/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures.hpp:273:17: note: template argument
deduction/substitution failed:
In file included from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures_def.hpp:486:0,
                  from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast_def.cpp:119,
                  from lang__ast_def.cpp:18:
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:561:59: note: cannot convert ‘t’ (type ‘const int’) to
type ‘const stan::lang::expr_type&’
    add("inv_gamma_rng", rng_return_type<double_type>(t, u), t,
u);
                                         ^
In file included from /home/changy/R/x86_64-redhat-linux-gnu-
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library/3.5/StanHeaders/include/src/stan/lang/ast_def.cpp:7,
                  from lang__ast_def.cpp:18:
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library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
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stan::lang::function_signatures::rng_return_type(const
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    expr_type rng_return_type(const expr_type& t, const
expr_type& u);
                                         ^
/home/changy/R/x86_64-redhat-linux-gnu-
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                  from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast_def.cpp:119,
                  from lang__ast_def.cpp:18:
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:561:59: note: cannot convert ‘t’ (type ‘const int’) to
```

```
type 'const stan::lang::expr_type&'  
    add("inv_gamma_rng", rng_return_type<double_type>(t, u), t,  
u);  
                                         ^  
In file included from /home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/ast.hpp:65:0,  
                  from /home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/ast_def.cpp:7,  
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/home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_  
signatures.hpp:306:17: note: template<class T>  
stan::lang::expr_type  
stan::lang::function_signatures::rng_return_type(const  
stan::lang::expr_type&, const stan::lang::expr_type&, const  
stan::lang::expr_type&)  
    expr_type rng_return_type(const expr_type& t,  
                           ^  
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library/3.5/StanHeaders/include/src/stan/lang/ast_def.cpp:119,  
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library/3.5/StanHeaders/include/src/stan/lang/function_signature  
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type 'const stan::lang::expr_type&'  
    add("inv_gamma_rng", rng_return_type<double_type>(t, u), t,  
u);  
                                         ^  
/home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/function_signature  
s.h:658:18: error: ISO C++ forbids declaration of 't' with no  
type [-fpermissive]  
    for (const auto& t : all_vector_types) {  
        ^  
/home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/function_signature  
s.h:658:22: error: range-based 'for' loops are not allowed in
```

```
C++98 mode
for (const auto& t : all_vector_types) {
    ^
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:659:20: error: ISO C++ forbids declaration of 'u' with no
type [-fpermissive]
    for (const auto& u : all_vector_types) {
        ^
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:659:24: error: range-based 'for' loops are not allowed in
C++98 mode
    for (const auto& u : all_vector_types) {
        ^
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:660:58: error: no matching function for call to
'stan::lang::function_signatures::rng_return_type(const int&,
const int&)'
    add("logistic_rng", rng_return_type<double_type>(t, u), t,
u);
    ^
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:660:58: note: candidates are:
In file included from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast.hpp:65:0,
                  from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast_def.cpp:7,
                  from lang__ast_def.cpp:18:
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures.hpp:273:17: note: template<class T>
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stan::lang::function_signatures::rng_return_type(const
stan::lang::expr_type&)
    expr_type rng_return_type(const expr_type& t);
    ^
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
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deduction/substitution failed:
In file included from /home/changy/R/x86_64-redhat-linux-gnu-
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library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures_def.hpp:486:0,
    from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast_def.cpp:119,
        from lang__ast_def.cpp:18:
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:660:58: note:  cannot convert ‘t’ (type ‘const int’) to
type ‘const stan::lang::expr_type&’
    add("logistic_rng", rng_return_type<double_type>(t, u), t,
u);
                                         ^
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    from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast_def.cpp:7,
        from lang__ast_def.cpp:18:
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures.hpp:289:17: note: template<class T>
stan::lang::expr_type
stan::lang::function_signatures::rng_return_type(const
stan::lang::expr_type&, const stan::lang::expr_type&)
    expr_type rng_return_type(const expr_type& t, const
expr_type& u);
                                         ^
/home/changy/R/x86_64-redhat-linux-gnu-
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    from /home/changy/R/x86_64-redhat-linux-gnu-
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        from lang__ast_def.cpp:18:
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library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:660:58: note:  cannot convert ‘t’ (type ‘const int’) to
type ‘const stan::lang::expr_type&’
    add("logistic_rng", rng_return_type<double_type>(t, u), t,
u);
                                         ^
In file included from /home/changy/R/x86_64-redhat-linux-gnu-
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library/3.5/StanHeaders/include/src/stan/lang/ast.hpp:65:0,
      from /home/changy/R/x86_64-redhat-linux-gnu-
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      from lang_ast_def.cpp:18:
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures.hpp:306:17: note: template<class T>
stan::lang::expr_type
stan::lang::function_signatures::rng_return_type(const
stan::lang::expr_type&, const stan::lang::expr_type&, const
stan::lang::expr_type&)
      expr_type rng_return_type(const expr_type& t,
      ^
/home/changy/R/x86_64-redhat-linux-gnu-
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signatures_def.hpp:486:0,
      from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast_def.cpp:119,
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library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:660:58: note: cannot convert ‘t’ (type ‘const int’) to
type ‘const stan::lang::expr_type&’
      add("logistic_rng", rng_return_type<double_type>(t, u), t,
u);
      ^
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:684:18: error: ISO C++ forbids declaration of ‘t’ with no
type [-fpermissive]
  for (const auto& t : all_vector_types) {
  ^
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:684:22: error: range-based ‘for’ loops are not allowed in
C++98 mode
  for (const auto& t : all_vector_types) {
  ^
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
```

```
s.h:685:20: error: ISO C++ forbids declaration of 'u' with no
type [-fpermissive]
    for (const auto& u : all_vector_types) {
        ^
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:685:24: error: range-based 'for' loops are not allowed in
C++98 mode
    for (const auto& u : all_vector_types) {
        ^
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:686:59: error: no matching function for call to
'stan::lang::function_signatures::rng_return_type(const int&,
const int&)'
    add("lognormal_rng", rng_return_type<double_type>(t, u), t,
u);
    ^
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library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
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    expr_type rng_return_type(const expr_type& t);
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library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:686:59: note:  cannot convert ‘t’ (type ‘const int’) to
type ‘const stan::lang::expr_type&’
    add("lognormal_rng", rng_return_type<double_type>(t, u), t,
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                                         ^
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                  from lang__ast_def.cpp:18:
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library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures.hpp:289:17: note: template<class T>
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stan::lang::function_signatures::rng_return_type(const
stan::lang::expr_type&, const stan::lang::expr_type&)
            expr_type rng_return_type(const expr_type& t, const
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                                         ^
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                  from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast_def.cpp:119,
                  from lang__ast_def.cpp:18:
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
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type ‘const stan::lang::expr_type&’
    add("lognormal_rng", rng_return_type<double_type>(t, u), t,
u);
                                         ^
In file included from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast.hpp:65:0,
                  from /home/changy/R/x86_64-redhat-linux-gnu-
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```
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
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stan::lang::function_signatures::rng_return_type(const
stan::lang::expr_type&, const stan::lang::expr_type&, const
stan::lang::expr_type&)
    expr_type rng_return_type(const expr_type& t,
                           ^
/home/changy/R/x86_64-redhat-linux-gnu-
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signatures.hpp:306:17: note: template argument
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library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures_def.hpp:486:0,
                     from /home/changy/R/x86_64-redhat-linux-gnu-
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library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:686:59: note: cannot convert ‘t’ (type ‘const int’) to
type ‘const stan::lang::expr_type&’
    add("lognormal_rng", rng_return_type<double_type>(t, u), t,
u);
                           ^
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:842:18: error: ISO C++ forbids declaration of ‘t’ with no
type [-fpermissive]
    for (const auto& t : all_vector_types) {
                           ^
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:842:22: error: range-based ‘for’ loops are not allowed in
C++98 mode
    for (const auto& t : all_vector_types) {
                           ^
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:843:20: error: ISO C++ forbids declaration of ‘u’ with no
type [-fpermissive]
    for (const auto& u : all_vector_types) {
                           ^
/home/changy/R/x86_64-redhat-linux-gnu-
```

```
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:843:24: error: range-based ‘for’ loops are not allowed in
C++98 mode
    for (const auto& u : all_vector_types) {
        ^
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:844:59: error: no matching function for call to
‘stan::lang::function_signatures::rng_return_type(const int&,
const int&)
    add("neg_binomial_rng", rng_return_type<int_type>(t, u), t,
u);
    ^
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:844:59: note: candidates are:
In file included from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast.hpp:65:0,
        from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast_def.cpp:7,
        from lang_ast_def.cpp:18:
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library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures.hpp:273:17: note: template<class T>
stan::lang::expr_type
stan::lang::function_signatures::rng_return_type(const
stan::lang::expr_type&)
    expr_type rng_return_type(const expr_type& t);
    ^
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library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
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library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
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        from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast_def.cpp:119,
        from lang_ast_def.cpp:18:
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:844:59: note: cannot convert ‘t’ (type ‘const int’) to
type ‘const stan::lang::expr_type&’
    add("neg_binomial_rng", rng_return_type<int_type>(t, u), t,
```

```
u);  
^  
In file included from /home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/ast.hpp:65:0,  
         from /home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/ast_def.cpp:7,  
         from lang__ast_def.cpp:18:  
/home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_  
signatures.hpp:289:17: note: template<class T>  
stan::lang::expr_type  
stan::lang::function_signatures::rng_return_type(const  
stan::lang::expr_type&, const stan::lang::expr_type&)  
    expr_type rng_return_type(const expr_type& t, const  
expr_type& u);  
^  
/home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_  
signatures.hpp:289:17: note: template argument  
deduction/substitution failed:  
In file included from /home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_  
signatures_def.hpp:486:0,  
         from /home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/ast_def.cpp:119,  
         from lang__ast_def.cpp:18:  
/home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/function_signature  
s.h:844:59: note: cannot convert ‘t’ (type ‘const int’) to  
type ‘const stan::lang::expr_type&’  
    add("neg_binomial_rng", rng_return_type<int_type>(t, u), t,  
u);  
^  
In file included from /home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/ast.hpp:65:0,  
         from /home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/ast_def.cpp:7,  
         from lang__ast_def.cpp:18:  
/home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_  
signatures.hpp:306:17: note: template<class T>  
stan::lang::expr_type  
stan::lang::function_signatures::rng_return_type(const  
stan::lang::expr_type&, const stan::lang::expr_type&, const
```

```
stan::lang::expr_type&)
    expr_type rng_return_type(const expr_type& t,
                           ^
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures.hpp:306:17: note: template argument
deduction/substitution failed:
In file included from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures_def.hpp:486:0,
                  from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast_def.cpp:119,
                  from lang__ast_def.cpp:18:
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:844:59: note: cannot convert ‘t’ (type ‘const int’) to
type ‘const stan::lang::expr_type&’
    add("neg_binomial_rng", rng_return_type<int_type>(t, u), t,
u);
                           ^
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:847:18: error: ISO C++ forbids declaration of ‘t’ with no
type [-fpermissive]
    for (const auto& t : all_vector_types) {
                           ^
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:847:22: error: range-based ‘for’ loops are not allowed in
C++98 mode
    for (const auto& t : all_vector_types) {
                           ^
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:848:20: error: ISO C++ forbids declaration of ‘u’ with no
type [-fpermissive]
    for (const auto& u : all_vector_types) {
                           ^
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:848:24: error: range-based ‘for’ loops are not allowed in
C++98 mode
    for (const auto& u : all_vector_types) {
                           ^
```

```
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:849:61: error: no matching function for call to
‘stan::lang::function_signatures::rng_return_type(const int&,
const int&)’
    add("neg_binomial_2_rng", rng_return_type<int_type>(t, u),
t, u);
                                         ^
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:849:61: note: candidates are:
In file included from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast.hpp:65:0,
                  from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast_def.cpp:7,
                  from lang__ast_def.cpp:18:
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures.hpp:273:17: note: template<class T>
stan::lang::expr_type
stan::lang::function_signatures::rng_return_type(const
stan::lang::expr_type&)
    expr_type rng_return_type(const expr_type& t);
           ^
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures.hpp:273:17: note: template argument
deduction/substitution failed:
In file included from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures_def.hpp:486:0,
                  from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast_def.cpp:119,
                  from lang__ast_def.cpp:18:
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:849:61: note: cannot convert ‘t’ (type ‘const int’) to
type ‘const stan::lang::expr_type&’
    add("neg_binomial_2_rng", rng_return_type<int_type>(t, u),
t, u);
                                         ^
In file included from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast.hpp:65:0,
                  from /home/changy/R/x86_64-redhat-linux-gnu-
```

```
library/3.5/StanHeaders/include/src/stan/lang/ast_def.cpp:7,
      from lang__ast_def.cpp:18:
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures.hpp:289:17: note: template<class T>
stan::lang::expr_type
stan::lang::function_signatures::rng_return_type(const
stan::lang::expr_type&, const stan::lang::expr_type&)
      expr_type rng_return_type(const expr_type& t, const
expr_type& u);
      ^
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures.hpp:289:17: note:   template argument
deduction/substitution failed:
In file included from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures_def.hpp:486:0,
      from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast_def.cpp:119,
      from lang__ast_def.cpp:18:
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:849:61: note:   cannot convert ‘t’ (type ‘const int’) to
type ‘const stan::lang::expr_type&’
      add("neg_binomial_2_rng", rng_return_type<int_type>(t, u),
t, u);
      ^
In file included from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast.hpp:65:0,
      from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast_def.cpp:7,
      from lang__ast_def.cpp:18:
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures.hpp:306:17: note: template<class T>
stan::lang::expr_type
stan::lang::function_signatures::rng_return_type(const
stan::lang::expr_type&, const stan::lang::expr_type&, const
stan::lang::expr_type&)
      expr_type rng_return_type(const expr_type& t,
      ^
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
```

```
signatures.hpp:306:17: note: template argument deduction/substitution failed:  
In file included from /home/changy/R/x86_64-redhat-linux-gnu-library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_signatures_def.hpp:486:0,  
          from /home/changy/R/x86_64-redhat-linux-gnu-library/3.5/StanHeaders/include/src/stan/lang/ast_def.cpp:119,  
          from lang_ast_def.cpp:18:  
/home/changy/R/x86_64-redhat-linux-gnu-library/3.5/StanHeaders/include/src/stan/lang/function_signature_s.h:849:61: note: cannot convert ‘t’ (type ‘const int’) to type ‘const stan::lang::expr_type&’  
    add("neg_binomial_2_rng", rng_return_type<int_type>(t, u),  
t, u);  
                                         ^  
/home/changy/R/x86_64-redhat-linux-gnu-library/3.5/StanHeaders/include/src/stan/lang/function_signature_s.h:852:18: error: ISO C++ forbids declaration of ‘t’ with no type [-fpermissive]  
    for (const auto& t : all_vector_types) {  
        ^  
/home/changy/R/x86_64-redhat-linux-gnu-library/3.5/StanHeaders/include/src/stan/lang/function_signature_s.h:852:22: error: range-based ‘for’ loops are not allowed in C++98 mode  
    for (const auto& t : all_vector_types) {  
        ^  
/home/changy/R/x86_64-redhat-linux-gnu-library/3.5/StanHeaders/include/src/stan/lang/function_signature_s.h:853:20: error: ISO C++ forbids declaration of ‘u’ with no type [-fpermissive]  
    for (const auto& u : all_vector_types) {  
        ^  
/home/changy/R/x86_64-redhat-linux-gnu-library/3.5/StanHeaders/include/src/stan/lang/function_signature_s.h:853:24: error: range-based ‘for’ loops are not allowed in C++98 mode  
    for (const auto& u : all_vector_types) {  
        ^  
/home/changy/R/x86_64-redhat-linux-gnu-library/3.5/StanHeaders/include/src/stan/lang/function_signature_s.h:854:65: error: no matching function for call to ‘stan::lang::function_signatures::rng_return_type(const int&, const int&)’
```

```
    add("neg_binomial_2_log_rng", rng_return_type<int_type>(t,
u), t, u);

^
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:854:65: note: candidates are:
In file included from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast.hpp:65:0,
                  from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast_def.cpp:7,
                  from lang__ast_def.cpp:18:
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures.hpp:273:17: note: template<class T>
stan::lang::expr_type
stan::lang::function_signatures::rng_return_type(const
stan::lang::expr_type&)
        expr_type rng_return_type(const expr_type& t);
        ^
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures.hpp:273:17: note:   template argument
deduction/substitution failed:
In file included from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures_def.hpp:486:0,
                  from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast_def.cpp:119,
                  from lang__ast_def.cpp:18:
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:854:65: note:   cannot convert ‘t’ (type ‘const int’) to
type ‘const stan::lang::expr_type&’
    add("neg_binomial_2_log_rng", rng_return_type<int_type>(t,
u), t, u);

^
In file included from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast.hpp:65:0,
                  from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast_def.cpp:7,
                  from lang__ast_def.cpp:18:
/home/changy/R/x86_64-redhat-linux-gnu-
```

```
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures.hpp:289:17: note: template<class T>
stan::lang::expr_type
stan::lang::function_signatures::rng_return_type(const
stan::lang::expr_type&, const stan::lang::expr_type&)
    expr_type rng_return_type(const expr_type& t, const
expr_type& u);
^
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures.hpp:289:17: note: template argument
deduction/substitution failed:
In file included from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures_def.hpp:486:0,
                  from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast_def.cpp:119,
                  from lang__ast_def.cpp:18:
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:854:65: note: cannot convert ‘t’ (type ‘const int’) to
type ‘const stan::lang::expr_type&’
    add("neg_binomial_2_log_rng", rng_return_type<int_type>(t,
u), t, u);

^
In file included from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast.hpp:65:0,
                  from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast_def.cpp:7,
                  from lang__ast_def.cpp:18:
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures.hpp:306:17: note: template<class T>
stan::lang::expr_type
stan::lang::function_signatures::rng_return_type(const
stan::lang::expr_type&, const stan::lang::expr_type&, const
stan::lang::expr_type&)
    expr_type rng_return_type(const expr_type& t,
^
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures.hpp:306:17: note: template argument
deduction/substitution failed:
```

```
In file included from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures_def.hpp:486:0,
        from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast_def.cpp:119,
        from lang_ast_def.cpp:18:
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:854:65: note:  cannot convert ‘t’ (type ‘const int’) to
type ‘const stan::lang::expr_type&’
    add("neg_binomial_2_log_rng", rng_return_type<int_type>(t,
u), t, u);

^
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:878:18: error: ISO C++ forbids declaration of ‘t’ with no
type [-fpermissive]
    for (const auto& t : all_vector_types) {
        ^
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:878:22: error: range-based ‘for’ loops are not allowed in
C++98 mode
    for (const auto& t : all_vector_types) {
        ^
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:879:20: error: ISO C++ forbids declaration of ‘u’ with no
type [-fpermissive]
    for (const auto& u : all_vector_types) {
        ^
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:879:24: error: range-based ‘for’ loops are not allowed in
C++98 mode
    for (const auto& u : all_vector_types) {
        ^
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:880:56: error: no matching function for call to
‘stan::lang::function_signatures::rng_return_type(const int&,
const int&)
    add("normal_rng", rng_return_type<double_type>(t, u), t,
```

```
u);  
          ^  
  
/home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/function_signature  
s.h:880:56: note: candidates are:  
In file included from /home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/ast.hpp:65:0,  
          from /home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/ast_def.cpp:7,  
          from lang__ast_def.cpp:18:  
/home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_  
signatures.hpp:273:17: note: template<class T>  
stan::lang::expr_type  
stan::lang::function_signatures::rng_return_type(const  
stan::lang::expr_type&)  
          expr_type rng_return_type(const expr_type& t);  
          ^  
  
/home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_  
signatures.hpp:273:17: note: template argument  
deduction/substitution failed:  
In file included from /home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_  
signatures_def.hpp:486:0,  
          from /home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/ast_def.cpp:119,  
          from lang__ast_def.cpp:18:  
/home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/function_signature  
s.h:880:56: note: cannot convert ‘t’ (type ‘const int’) to  
type ‘const stan::lang::expr_type&’  
          add("normal_rng", rng_return_type<double_type>(t, u), t,  
u);  
          ^  
  
In file included from /home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/ast.hpp:65:0,  
          from /home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/ast_def.cpp:7,  
          from lang__ast_def.cpp:18:  
/home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_  
signatures.hpp:289:17: note: template<class T>  
stan::lang::expr_type
```

```
stan::lang::function_signatures::rng_return_type(const
stan::lang::expr_type&, const stan::lang::expr_type&)
    expr_type rng_return_type(const expr_type& t, const
expr_type& u);
    ^
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures.hpp:289:17: note: template argument
deduction/substitution failed:
In file included from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures_def.hpp:486:0,
    from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast_def.cpp:119,
    from lang__ast_def.cpp:18:
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:880:56: note: cannot convert 't' (type 'const int') to
type 'const stan::lang::expr_type&'
    add("normal_rng", rng_return_type<double_type>(t, u), t,
u);
    ^
In file included from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast.hpp:65:0,
    from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast_def.cpp:7,
    from lang__ast_def.cpp:18:
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures.hpp:306:17: note: template<class T>
stan::lang::expr_type
stan::lang::function_signatures::rng_return_type(const
stan::lang::expr_type&, const stan::lang::expr_type&, const
stan::lang::expr_type&)
    expr_type rng_return_type(const expr_type& t,
    ^
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures.hpp:306:17: note: template argument
deduction/substitution failed:
In file included from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures_def.hpp:486:0,
    from /home/changy/R/x86_64-redhat-linux-gnu-
```

```
library/3.5/StanHeaders/include/src/stan/lang/ast_def.cpp:119,
      from lang__ast_def.cpp:18:
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:880:56: note:  cannot convert ‘t’ (type ‘const int’) to
type ‘const stan::lang::expr_type&’
      add("normal_rng", rng_return_type<double_type>(t, u), t,
u);
                                         ^
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:946:18: error: ISO C++ forbids declaration of ‘t’ with no
type [-fpermissive]
  for (const auto& t : all_vector_types) {
      ^
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:946:22: error: range-based ‘for’ loops are not allowed in
C++98 mode
  for (const auto& t : all_vector_types) {
      ^
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:947:20: error: ISO C++ forbids declaration of ‘u’ with no
type [-fpermissive]
  for (const auto& u : all_vector_types) {
      ^
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:947:24: error: range-based ‘for’ loops are not allowed in
C++98 mode
  for (const auto& u : all_vector_types) {
      ^
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:948:56: error: no matching function for call to
‘stan::lang::function_signatures::rng_return_type(const int&,
const int&)’
      add("pareto_rng", rng_return_type<double_type>(t, u), t,
u);
                                         ^
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:948:56: note: candidates are:
```

```
In file included from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast.hpp:65:0,
                  from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast_def.cpp:7,
                  from lang__ast_def.cpp:18:
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures.hpp:273:17: note: template<class T>
stan::lang::expr_type
stan::lang::function_signatures::rng_return_type(const
stan::lang::expr_type&)
    expr_type rng_return_type(const expr_type& t);
    ^
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures.hpp:273:17: note: template argument
deduction/substitution failed:
In file included from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures_def.hpp:486:0,
                  from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast_def.cpp:119,
                  from lang__ast_def.cpp:18:
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:948:56: note: cannot convert ‘t’ (type ‘const int’) to
type ‘const stan::lang::expr_type&’
    add("pareto_rng", rng_return_type<double_type>(t, u), t,
u);
    ^
In file included from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast.hpp:65:0,
                  from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast_def.cpp:7,
                  from lang__ast_def.cpp:18:
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures.hpp:289:17: note: template<class T>
stan::lang::expr_type
stan::lang::function_signatures::rng_return_type(const
stan::lang::expr_type&, const stan::lang::expr_type&)
    expr_type rng_return_type(const expr_type& t, const
expr_type& u);
    ^
```

```
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures.hpp:289:17: note: template argument
deduction/substitution failed:
In file included from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures_def.hpp:486:0,
                  from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast_def.cpp:119,
                  from lang__ast_def.cpp:18:
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:948:56: note: cannot convert ‘t’ (type ‘const int’) to
type ‘const stan::lang::expr_type&’
    add("pareto_rng", rng_return_type<double_type>(t, u), t,
u);
                                         ^
In file included from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast.hpp:65:0,
                  from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast_def.cpp:7,
                  from lang__ast_def.cpp:18:
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures.hpp:306:17: note: template<class T>
stan::lang::expr_type
stan::lang::function_signatures::rng_return_type(const
stan::lang::expr_type&, const stan::lang::expr_type&, const
stan::lang::expr_type&)
    expr_type rng_return_type(const expr_type& t,
                           ^
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures.hpp:306:17: note: template argument
deduction/substitution failed:
In file included from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures_def.hpp:486:0,
                  from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast_def.cpp:119,
                  from lang__ast_def.cpp:18:
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:948:56: note: cannot convert ‘t’ (type ‘const int’) to
```

```
type 'const stan::lang::expr_type&'
    add("pareto_rng", rng_return_type<double_type>(t, u), t,
u);
^
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:973:18: error: ISO C++ forbids declaration of 't' with no
type [-fpermissive]
for (const auto& t : all_vector_types) {
^
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:973:22: error: range-based 'for' loops are not allowed in
C++98 mode
for (const auto& t : all_vector_types) {
^
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:974:20: error: ISO C++ forbids declaration of 'u' with no
type [-fpermissive]
for (const auto& u : all_vector_types) {
^
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:974:24: error: range-based 'for' loops are not allowed in
C++98 mode
for (const auto& u : all_vector_types) {
^
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:975:22: error: ISO C++ forbids declaration of 'v' with no
type [-fpermissive]
for (const auto& v : all_vector_types) {
^
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:975:26: error: range-based 'for' loops are not allowed in
C++98 mode
for (const auto& v : all_vector_types) {
^
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:976:68: error: no matching function for call to
'stan::lang::function_signatures::rng_return_type(const int&,
```

```
const int&, const int&)
    add("pareto_type_2_rng", rng_return_type<double_type>(t,
u, v), t, u, v);

^
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:976:68: note: candidates are:
In file included from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast.hpp:65:0,
                  from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast_def.cpp:7,
                  from lang__ast_def.cpp:18:
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures.hpp:273:17: note: template<class T>
stan::lang::expr_type
stan::lang::function_signatures::rng_return_type(const
stan::lang::expr_type&)
    expr_type rng_return_type(const expr_type& t);
          ^
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures.hpp:273:17: note: template argument
deduction/substitution failed:
In file included from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures_def.hpp:486:0,
                  from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast_def.cpp:119,
                  from lang__ast_def.cpp:18:
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:976:68: note: cannot convert ‘t’ (type ‘const int’) to
type ‘const stan::lang::expr_type&’
    add("pareto_type_2_rng", rng_return_type<double_type>(t,
u, v), t, u, v);

^
In file included from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast.hpp:65:0,
                  from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast_def.cpp:7,
                  from lang__ast_def.cpp:18:
```

```
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures.hpp:289:17: note: template<class T>
stan::lang::expr_type
stan::lang::function_signatures::rng_return_type(const
stan::lang::expr_type&, const stan::lang::expr_type&)
    expr_type rng_return_type(const expr_type& t, const
expr_type& u);
^
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures.hpp:289:17: note: template argument
deduction/substitution failed:
In file included from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures_def.hpp:486:0,
        from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast_def.cpp:119,
        from lang__ast_def.cpp:18:
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:976:68: note: cannot convert 't' (type 'const int') to
type 'const stan::lang::expr_type&'
    add("pareto_type_2_rng", rng_return_type<double_type>(t,
u, v), t, u, v);

^
In file included from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast.hpp:65:0,
        from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast_def.cpp:7,
        from lang__ast_def.cpp:18:
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures.hpp:306:17: note: template<class T>
stan::lang::expr_type
stan::lang::function_signatures::rng_return_type(const
stan::lang::expr_type&, const stan::lang::expr_type&, const
stan::lang::expr_type&)
    expr_type rng_return_type(const expr_type& t,
^
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures.hpp:306:17: note: template argument
```

```
deduction/substitution failed:  
In file included from /home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_  
signatures_def.hpp:486:0,  
        from /home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/ast_def.cpp:119,  
        from lang__ast_def.cpp:18:  
/home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/function_signature  
s.h:976:68: note:  cannot convert ‘t’ (type ‘const int’) to  
type ‘const stan::lang::expr_type&’  
    add("pareto_type_2_rng", rng_return_type<double_type>(t,  
u, v), t, u, v);  
  
^  
/home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/function_signature  
s.h:1001:18: error: ISO C++ forbids declaration of ‘t’ with no  
type [-fpermissive]  
for (const auto& t : all_vector_types) {  
    ^  
/home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/function_signature  
s.h:1001:22: error: range-based ‘for’ loops are not allowed in  
C++98 mode  
for (const auto& t : all_vector_types) {  
    ^  
/home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/function_signature  
s.h:1002:49: error: no matching function for call to  
'stan::lang::function_signatures::rng_return_type(const int&)'  
    add("poisson_rng", rng_return_type<int_type>(t), t);  
    ^  
/home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/function_signature  
s.h:1002:49: note: candidates are:  
In file included from /home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/ast.hpp:65:0,  
        from /home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/ast_def.cpp:7,  
        from lang__ast_def.cpp:18:  
/home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_  
signatures.hpp:273:17: note: template<class T>
```

```
stan::lang::expr_type
stan::lang::function_signatures::rng_return_type(const
stan::lang::expr_type&)
    expr_type rng_return_type(const expr_type& t);
    ^
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures.hpp:273:17: note: template argument
deduction/substitution failed:
In file included from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures_def.hpp:486:0,
    from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast_def.cpp:119,
    from lang__ast_def.cpp:18:
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:1002:49: note: cannot convert 't' (type 'const int') to
type 'const stan::lang::expr_type&'
    add("poisson_rng", rng_return_type<int_type>(t), t);
    ^
In file included from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast.hpp:65:0,
    from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast_def.cpp:7,
    from lang__ast_def.cpp:18:
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures.hpp:289:17: note: template<class T>
stan::lang::expr_type
stan::lang::function_signatures::rng_return_type(const
stan::lang::expr_type&, const stan::lang::expr_type&)
    expr_type rng_return_type(const expr_type& t, const
expr_type& u);
    ^
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures.hpp:289:17: note: template argument
deduction/substitution failed:
In file included from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures_def.hpp:486:0,
    from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast_def.cpp:119,
```

```
        from lang__ast_def.cpp:18:  
/home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/function_signature  
s.h:1002:49: note:  cannot convert ‘t’ (type ‘const int’) to  
type ‘const stan::lang::expr_type&’  
    add("poisson_rng", rng_return_type<int_type>(t), t);  
                                ^  
In file included from /home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/ast.hpp:65:0,  
                  from /home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/ast_def.cpp:7,  
                  from lang__ast_def.cpp:18:  
/home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_  
signatures.hpp:306:17: note: template<class T>  
stan::lang::expr_type  
stan::lang::function_signatures::rng_return_type(const  
stan::lang::expr_type&, const stan::lang::expr_type&, const  
stan::lang::expr_type&)  
    expr_type rng_return_type(const expr_type& t,  
                            ^  
/home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_  
signatures.hpp:306:17: note:  template argument  
deduction/substitution failed:  
In file included from /home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_  
signatures_def.hpp:486:0,  
                  from /home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/ast_def.cpp:119,  
                  from lang__ast_def.cpp:18:  
/home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/function_signature  
s.h:1002:49: note:  cannot convert ‘t’ (type ‘const int’) to  
type ‘const stan::lang::expr_type&’  
    add("poisson_rng", rng_return_type<int_type>(t), t);  
                                ^  
/home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/function_signature  
s.h:1012:18: error: ISO C++ forbids declaration of ‘t’ with no  
type [-fpermissive]  
    for (const auto& t : all_vector_types) {  
        ^  
/home/changy/R/x86_64-redhat-linux-gnu-
```

```
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:1012:22: error: range-based ‘for’ loops are not allowed in
C++98 mode
    for (const auto& t : all_vector_types) {
        ^
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:1013:53: error: no matching function for call to
‘stan::lang::function_signatures::rng_return_type(const int&)
    add("poisson_log_rng", rng_return_type<int_type>(t), t);
                                ^
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:1013:53: note: candidates are:
In file included from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast.hpp:65:0,
                  from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast_def.cpp:7,
                  from lang_ast_def.cpp:18:
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures.hpp:273:17: note: template<class T>
stan::lang::expr_type
stan::lang::function_signatures::rng_return_type(const
stan::lang::expr_type&)
    expr_type rng_return_type(const expr_type& t);
            ^
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures.hpp:273:17: note: template argument
deduction/substitution failed:
In file included from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures_def.hpp:486:0,
                  from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast_def.cpp:119,
                  from lang_ast_def.cpp:18:
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:1013:53: note: cannot convert ‘t’ (type ‘const int’) to
type ‘const stan::lang::expr_type&’
    add("poisson_log_rng", rng_return_type<int_type>(t), t);
                                ^
In file included from /home/changy/R/x86_64-redhat-linux-gnu-
```

```
library/3.5/StanHeaders/include/src/stan/lang/ast.hpp:65:0,
      from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast_def.cpp:7,
      from lang_ast_def.cpp:18:
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures.hpp:289:17: note: template<class T>
stan::lang::expr_type
stan::lang::function_signatures::rng_return_type(const
stan::lang::expr_type&, const stan::lang::expr_type&)
      expr_type rng_return_type(const expr_type& t, const
expr_type& u);
      ^
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures.hpp:289:17: note:   template argument
deduction/substitution failed:
In file included from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/sigs/function_
signatures_def.hpp:486:0,
      from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast_def.cpp:119,
      from lang_ast_def.cpp:18:
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:1013:53: note:   cannot convert ‘t’ (type ‘const int’) to
type ‘const stan::lang::expr_type&’
      add("poisson_log_rng", rng_return_type<int_type>(t), t);
      ^
In file included from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast.hpp:65:0,
      from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast_def.cpp:7,
      from lang_ast_def.cpp:18:
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures.hpp:306:17: note: template<class T>
stan::lang::expr_type
stan::lang::function_signatures::rng_return_type(const
stan::lang::expr_type&, const stan::lang::expr_type&, const
stan::lang::expr_type&)
      expr_type rng_return_type(const expr_type& t,
      ^
/home/changy/R/x86_64-redhat-linux-gnu-
```

```
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures.hpp:306:17: note: template argument
deduction/substitution failed:
In file included from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures_def.hpp:486:0,
                  from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast_def.cpp:119,
                  from lang__ast_def.cpp:18:
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:1013:53: note: cannot convert ‘t’ (type ‘const int’) to
type ‘const stan::lang::expr_type&’
    add("poisson_log_rng", rng_return_type<int_type>(t), t);
                                         ^
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:1043:18: error: ISO C++ forbids declaration of ‘t’ with no
type [-fpermissive]
    for (const auto& t : all_vector_types) {
                                         ^
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:1043:22: error: range-based ‘for’ loops are not allowed in
C++98 mode
    for (const auto& t : all_vector_types) {
                                         ^
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:1044:53: error: no matching function for call to
‘stan::lang::function_signatures::rng_return_type(const int&)’
    add("rayleigh_rng", rng_return_type<double_type>(t), t);
                                         ^
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:1044:53: note: candidates are:
In file included from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast.hpp:65:0,
                  from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast_def.cpp:7,
                  from lang__ast_def.cpp:18:
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures.hpp:273:17: note: template<class T>
```

```
stan::lang::expr_type
stan::lang::function_signatures::rng_return_type(const
stan::lang::expr_type&)
    expr_type rng_return_type(const expr_type& t);
    ^
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures.hpp:273:17: note: template argument
deduction/substitution failed:
In file included from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures_def.hpp:486:0,
    from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast_def.cpp:119,
    from lang__ast_def.cpp:18:
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:1044:53: note: cannot convert 't' (type 'const int') to
type 'const stan::lang::expr_type&'
    add("rayleigh_rng", rng_return_type<double_type>(t), t);
    ^
In file included from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast.hpp:65:0,
    from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast_def.cpp:7,
    from lang__ast_def.cpp:18:
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures.hpp:289:17: note: template<class T>
stan::lang::expr_type
stan::lang::function_signatures::rng_return_type(const
stan::lang::expr_type&, const stan::lang::expr_type&)
    expr_type rng_return_type(const expr_type& t, const
expr_type& u);
    ^
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures.hpp:289:17: note: template argument
deduction/substitution failed:
In file included from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures_def.hpp:486:0,
    from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast_def.cpp:119,
```

```
        from lang__ast_def.cpp:18:  
/home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/function_signature  
s.h:1044:53: note:  cannot convert ‘t’ (type ‘const int’) to  
type ‘const stan::lang::expr_type&’  
    add("rayleigh_rng", rng_return_type<double_type>(t), t);  
                                         ^  
  
In file included from /home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/ast.hpp:65:0,  
                  from /home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/ast_def.cpp:7,  
                  from lang__ast_def.cpp:18:  
/home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_  
signatures.hpp:306:17: note: template<class T>  
stan::lang::expr_type  
stan::lang::function_signatures::rng_return_type(const  
stan::lang::expr_type&, const stan::lang::expr_type&, const  
stan::lang::expr_type&)  
    expr_type rng_return_type(const expr_type& t,  
                           ^  
  
/home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_  
signatures.hpp:306:17: note:  template argument  
deduction/substitution failed:  
In file included from /home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_  
signatures_def.hpp:486:0,  
                  from /home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/ast_def.cpp:119,  
                  from lang__ast_def.cpp:18:  
/home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/function_signature  
s.h:1044:53: note:  cannot convert ‘t’ (type ‘const int’) to  
type ‘const stan::lang::expr_type&’  
    add("rayleigh_rng", rng_return_type<double_type>(t), t);  
                                         ^  
  
/home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/function_signature  
s.h:1106:18: error: ISO C++ forbids declaration of ‘t’ with no  
type [-fpermissive]  
    for (const auto& t : all_vector_types) {  
                           ^  
/home/changy/R/x86_64-redhat-linux-gnu-
```

```
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:1106:22: error: range-based ‘for’ loops are not allowed in
C++98 mode
    for (const auto& t : all_vector_types) {
        ^
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:1107:20: error: ISO C++ forbids declaration of ‘u’ with no
type [-fpermissive]
    for (const auto& u : all_vector_types) {
        ^
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:1107:24: error: range-based ‘for’ loops are not allowed in
C++98 mode
    for (const auto& u : all_vector_types) {
        ^
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:1108:71: error: no matching function for call to
‘stan::lang::function_signatures::rng_return_type(const int&,
const int&)
    add("scaled_inv_chi_square_rng",
rng_return_type<double_type>(t, u), t, u);

^
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:1108:71: note: candidates are:
In file included from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast.hpp:65:0,
                  from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast_def.cpp:7,
                  from lang__ast_def.cpp:18:
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures.hpp:273:17: note: template<class T>
stan::lang::expr_type
stan::lang::function_signatures::rng_return_type(const
stan::lang::expr_type&)
    expr_type rng_return_type(const expr_type& t);
    ^
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
```

```
signatures.hpp:273:17: note: template argument
deduction/substitution failed:
In file included from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures_def.hpp:486:0,
                  from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast_def.cpp:119,
                  from lang__ast_def.cpp:18:
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:1108:71: note: cannot convert 't' (type 'const int') to
type 'const stan::lang::expr_type&'
    add("scaled_inv_chi_square_rng",
rng_return_type<double_type>(t, u), t, u);

^
In file included from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast.hpp:65:0,
                  from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast_def.cpp:7,
                  from lang__ast_def.cpp:18:
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures.hpp:289:17: note: template<class T>
stan::lang::expr_type
stan::lang::function_signatures::rng_return_type(const
stan::lang::expr_type&, const stan::lang::expr_type&)
    expr_type rng_return_type(const expr_type& t, const
expr_type& u);
^
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures.hpp:289:17: note: template argument
deduction/substitution failed:
In file included from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures_def.hpp:486:0,
                  from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast_def.cpp:119,
                  from lang__ast_def.cpp:18:
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:1108:71: note: cannot convert 't' (type 'const int') to
type 'const stan::lang::expr_type&'
```

```
    add("scaled_inv_chi_square_rng",
rng_return_type<double_type>(t, u), t, u);

^
In file included from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast.hpp:65:0,
                  from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast_def.cpp:7,
                  from lang__ast_def.cpp:18:
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures.hpp:306:17: note: template<class T>
stan::lang::expr_type
stan::lang::function_signatures::rng_return_type(const
stan::lang::expr_type&, const stan::lang::expr_type&, const
stan::lang::expr_type&)
        expr_type rng_return_type(const expr_type& t,
                           ^
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures.hpp:306:17: note: template argument
deduction/substitution failed:
In file included from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures_def.hpp:486:0,
                  from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast_def.cpp:119,
                  from lang__ast_def.cpp:18:
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:1108:71: note: cannot convert ‘t’ (type ‘const int’) to
type ‘const stan::lang::expr_type&’
    add("scaled_inv_chi_square_rng",
rng_return_type<double_type>(t, u), t, u);

^
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:1158:18: error: ISO C++ forbids declaration of ‘t’ with no
type [-fpermissive]
    for (const auto& t : all_vector_types) {
                           ^
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
```

```
s.h:1158:22: error: range-based ‘for’ loops are not allowed in
C++98 mode
    for (const auto& t : all_vector_types) {
        ^
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:1159:20: error: ISO C++ forbids declaration of ‘u’ with no
type [-fpermissive]
    for (const auto& u : all_vector_types) {
        ^
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:1159:24: error: range-based ‘for’ loops are not allowed in
C++98 mode
    for (const auto& u : all_vector_types) {
        ^
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:1160:22: error: ISO C++ forbids declaration of ‘v’ with no
type [-fpermissive]
    for (const auto& v : all_vector_types) {
        ^
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:1160:26: error: range-based ‘for’ loops are not allowed in
C++98 mode
    for (const auto& v : all_vector_types) {
        ^
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:1161:66: error: no matching function for call to
‘stan::lang::function_signatures::rng_return_type(const int&,
const int&, const int&)
    add("skew_normal_rng", rng_return_type<double_type>(t, u,
v), t, u, v);

^
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:1161:66: note: candidates are:
In file included from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast.hpp:65:0,
                  from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast_def.cpp:7,
```

```
        from lang__ast_def.cpp:18:  
/home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_  
signatures.hpp:273:17: note: template<class T>  
stan::lang::expr_type  
stan::lang::function_signatures::rng_return_type(const  
stan::lang::expr_type&)  
    expr_type rng_return_type(const expr_type& t);  
    ^  
/home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_  
signatures.hpp:273:17: note: template argument  
deduction/substitution failed:  
In file included from /home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_  
signatures_def.hpp:486:0,  
        from /home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/ast_def.cpp:119,  
        from lang__ast_def.cpp:18:  
/home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/function_signature  
s.h:1161:66: note: cannot convert ‘t’ (type ‘const int’) to  
type ‘const stan::lang::expr_type&’  
    add("skew_normal_rng", rng_return_type<double_type>(t, u,  
v), t, u, v);  
  
^  
In file included from /home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/ast.hpp:65:0,  
        from /home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/ast_def.cpp:7,  
        from lang__ast_def.cpp:18:  
/home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_  
signatures.hpp:289:17: note: template<class T>  
stan::lang::expr_type  
stan::lang::function_signatures::rng_return_type(const  
stan::lang::expr_type&, const stan::lang::expr_type&)  
    expr_type rng_return_type(const expr_type& t, const  
expr_type& u);  
    ^  
/home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_  
signatures.hpp:289:17: note: template argument
```

```
deduction/substitution failed:  
In file included from /home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_  
signatures_def.hpp:486:0,  
        from /home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/ast_def.cpp:119,  
        from lang__ast_def.cpp:18:  
/home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/function_signature  
s.h:1161:66: note:  cannot convert ‘t’ (type ‘const int’) to  
type ‘const stan::lang::expr_type&’  
    add("skew_normal_rng", rng_return_type<double_type>(t, u,  
v), t, u, v);  
  
^  
In file included from /home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/ast.hpp:65:0,  
        from /home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/ast_def.cpp:7,  
        from lang__ast_def.cpp:18:  
/home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_  
signatures.hpp:306:17: note: template<class T>  
stan::lang::expr_type  
stan::lang::function_signatures::rng_return_type(const  
stan::lang::expr_type&, const stan::lang::expr_type&, const  
stan::lang::expr_type&)  
    expr_type rng_return_type(const expr_type& t,  
    ^  
/home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_  
signatures.hpp:306:17: note:  template argument  
deduction/substitution failed:  
In file included from /home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_  
signatures_def.hpp:486:0,  
        from /home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/ast_def.cpp:119,  
        from lang__ast_def.cpp:18:  
/home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/function_signature  
s.h:1161:66: note:  cannot convert ‘t’ (type ‘const int’) to  
type ‘const stan::lang::expr_type&’  
    add("skew_normal_rng", rng_return_type<double_type>(t, u,
```

```
v), t, u, v);  
  
^  
/home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/function_signature  
s.h:1219:18: error: ISO C++ forbids declaration of 't' with no  
type [-fpermissive]  
for (const auto& t : all_vector_types) {  
    ^  
/home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/function_signature  
s.h:1219:22: error: range-based 'for' loops are not allowed in  
C++98 mode  
for (const auto& t : all_vector_types) {  
    ^  
/home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/function_signature  
s.h:1220:20: error: ISO C++ forbids declaration of 'u' with no  
type [-fpermissive]  
for (const auto& u : all_vector_types) {  
    ^  
/home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/function_signature  
s.h:1220:24: error: range-based 'for' loops are not allowed in  
C++98 mode  
for (const auto& u : all_vector_types) {  
    ^  
/home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/function_signature  
s.h:1221:22: error: ISO C++ forbids declaration of 'v' with no  
type [-fpermissive]  
for (const auto& v : all_vector_types) {  
    ^  
/home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/function_signature  
s.h:1221:26: error: range-based 'for' loops are not allowed in  
C++98 mode  
for (const auto& v : all_vector_types) {  
    ^  
/home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/function_signature  
s.h:1222:64: error: no matching function for call to  
'stan::lang::function_signatures::rng_return_type(const int&,  
const int&, const int&)'
```

```
    add("student_t_rng", rng_return_type<double_type>(t, u,
v), t, u, v);

^
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:1222:64: note: candidates are:
In file included from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast.hpp:65:0,
                  from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast_def.cpp:7,
                  from lang__ast_def.cpp:18:
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures.hpp:273:17: note: template<class T>
stan::lang::expr_type
stan::lang::function_signatures::rng_return_type(const
stan::lang::expr_type&)
        expr_type rng_return_type(const expr_type& t);
        ^
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures.hpp:273:17: note:   template argument
deduction/substitution failed:
In file included from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures_def.hpp:486:0,
                  from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast_def.cpp:119,
                  from lang__ast_def.cpp:18:
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:1222:64: note:   cannot convert ‘t’ (type ‘const int’) to
type ‘const stan::lang::expr_type&’
        add("student_t_rng", rng_return_type<double_type>(t, u,
v), t, u, v);

^
In file included from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast.hpp:65:0,
                  from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast_def.cpp:7,
                  from lang__ast_def.cpp:18:
/home/changy/R/x86_64-redhat-linux-gnu-
```

```
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures.hpp:289:17: note: template<class T>
stan::lang::expr_type
stan::lang::function_signatures::rng_return_type(const
stan::lang::expr_type&, const stan::lang::expr_type&)
    expr_type rng_return_type(const expr_type& t, const
expr_type& u);
^
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures.hpp:289:17: note: template argument
deduction/substitution failed:
In file included from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures_def.hpp:486:0,
                  from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast_def.cpp:119,
                  from lang__ast_def.cpp:18:
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:1222:64: note: cannot convert ‘t’ (type ‘const int’) to
type ‘const stan::lang::expr_type&’
    add("student_t_rng", rng_return_type<double_type>(t, u,
v), t, u, v);

^
In file included from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast.hpp:65:0,
                  from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast_def.cpp:7,
                  from lang__ast_def.cpp:18:
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures.hpp:306:17: note: template<class T>
stan::lang::expr_type
stan::lang::function_signatures::rng_return_type(const
stan::lang::expr_type&, const stan::lang::expr_type&, const
stan::lang::expr_type&)
    expr_type rng_return_type(const expr_type& t,
^
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures.hpp:306:17: note: template argument
deduction/substitution failed:
```

```
In file included from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures_def.hpp:486:0,
        from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast_def.cpp:119,
        from lang_ast_def.cpp:18:
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:1222:64: note:  cannot convert ‘t’ (type ‘const int’) to
type ‘const stan::lang::expr_type&’
    add("student_t_rng", rng_return_type<double_type>(t, u,
v), t, u, v);

^
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:1320:18: error: ISO C++ forbids declaration of ‘t’ with no
type [-fpermissive]
    for (const auto& t : all_vector_types) {
        ^
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:1320:22: error: range-based ‘for’ loops are not allowed in
C++98 mode
    for (const auto& t : all_vector_types) {
        ^
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:1321:20: error: ISO C++ forbids declaration of ‘u’ with no
type [-fpermissive]
    for (const auto& u : all_vector_types) {
        ^
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:1321:24: error: range-based ‘for’ loops are not allowed in
C++98 mode
    for (const auto& u : all_vector_types) {
        ^
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:1322:57: error: no matching function for call to
‘stan::lang::function_signatures::rng_return_type(const int&,
const int&)
    add("uniform_rng", rng_return_type<double_type>(t, u), t,
```

```
u);  
^  
/home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/function_signature  
s.h:1322:57: note: candidates are:  
In file included from /home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/ast.hpp:65:0,  
      from /home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/ast_def.cpp:7,  
      from lang__ast_def.cpp:18:  
/home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_  
signatures.hpp:273:17: note: template<class T>  
stan::lang::expr_type  
stan::lang::function_signatures::rng_return_type(const  
stan::lang::expr_type&)  
    expr_type rng_return_type(const expr_type& t);  
^  
/home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_  
signatures.hpp:273:17: note: template argument  
deduction/substitution failed:  
In file included from /home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_  
signatures_def.hpp:486:0,  
      from /home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/ast_def.cpp:119,  
      from lang__ast_def.cpp:18:  
/home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/function_signature  
s.h:1322:57: note: cannot convert ‘t’ (type ‘const int’) to  
type ‘const stan::lang::expr_type&’  
    add("uniform_rng", rng_return_type<double_type>(t, u), t,  
u);  
^  
In file included from /home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/ast.hpp:65:0,  
      from /home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/ast_def.cpp:7,  
      from lang__ast_def.cpp:18:  
/home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_  
signatures.hpp:289:17: note: template<class T>  
stan::lang::expr_type
```

```
stan::lang::function_signatures::rng_return_type(const
stan::lang::expr_type&, const stan::lang::expr_type&)
    expr_type rng_return_type(const expr_type& t, const
expr_type& u);
    ^
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures.hpp:289:17: note: template argument
deduction/substitution failed:
In file included from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures_def.hpp:486:0,
    from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast_def.cpp:119,
    from lang__ast_def.cpp:18:
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:1322:57: note: cannot convert 't' (type 'const int') to
type 'const stan::lang::expr_type&'
    add("uniform_rng", rng_return_type<double_type>(t, u), t,
u);
    ^
In file included from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast.hpp:65:0,
    from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast_def.cpp:7,
    from lang__ast_def.cpp:18:
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures.hpp:306:17: note: template<class T>
stan::lang::expr_type
stan::lang::function_signatures::rng_return_type(const
stan::lang::expr_type&, const stan::lang::expr_type&, const
stan::lang::expr_type&)
    expr_type rng_return_type(const expr_type& t,
    ^
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures.hpp:306:17: note: template argument
deduction/substitution failed:
In file included from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures_def.hpp:486:0,
    from /home/changy/R/x86_64-redhat-linux-gnu-
```

```
library/3.5/StanHeaders/include/src/stan/lang/ast_def.cpp:119,
      from lang__ast_def.cpp:18:
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:1322:57: note:  cannot convert ‘t’ (type ‘const int’) to
type ‘const stan::lang::expr_type&’
    add("uniform_rng", rng_return_type<double_type>(t, u), t,
u);
                                         ^
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:1339:18: error: ISO C++ forbids declaration of ‘t’ with no
type [-fpermissive]
    for (const auto& t : all_vector_types) {
        ^
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:1339:22: error: range-based ‘for’ loops are not allowed in
C++98 mode
    for (const auto& t : all_vector_types) {
        ^
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:1340:20: error: ISO C++ forbids declaration of ‘u’ with no
type [-fpermissive]
    for (const auto& u : all_vector_types) {
        ^
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:1340:24: error: range-based ‘for’ loops are not allowed in
C++98 mode
    for (const auto& u : all_vector_types) {
        ^
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:1341:59: error: no matching function for call to
‘stan::lang::function_signatures::rng_return_type(const int&,
const int&)
    add("von_mises_rng", rng_return_type<double_type>(t, u), t,
u);
                                         ^
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:1341:59: note: candidates are:
```

```
In file included from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast.hpp:65:0,
                  from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast_def.cpp:7,
                  from lang__ast_def.cpp:18:
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures.hpp:273:17: note: template<class T>
stan::lang::expr_type
stan::lang::function_signatures::rng_return_type(const
stan::lang::expr_type&)
    expr_type rng_return_type(const expr_type& t);
    ^
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures.hpp:273:17: note: template argument
deduction/substitution failed:
In file included from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures_def.hpp:486:0,
                  from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast_def.cpp:119,
                  from lang__ast_def.cpp:18:
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:1341:59: note: cannot convert ‘t’ (type ‘const int’) to
type ‘const stan::lang::expr_type&’
    add("von_mises_rng", rng_return_type<double_type>(t, u), t,
u);
    ^
In file included from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast.hpp:65:0,
                  from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast_def.cpp:7,
                  from lang__ast_def.cpp:18:
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures.hpp:289:17: note: template<class T>
stan::lang::expr_type
stan::lang::function_signatures::rng_return_type(const
stan::lang::expr_type&, const stan::lang::expr_type&)
    expr_type rng_return_type(const expr_type& t, const
expr_type& u);
    ^
```

```
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures.hpp:289:17: note: template argument
deduction/substitution failed:
In file included from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures_def.hpp:486:0,
                  from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast_def.cpp:119,
                  from lang__ast_def.cpp:18:
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:1341:59: note: cannot convert 't' (type 'const int') to
type 'const stan::lang::expr_type&'
    add("von_mises_rng", rng_return_type<double_type>(t, u), t,
u);
                                         ^
In file included from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast.hpp:65:0,
                  from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast_def.cpp:7,
                  from lang__ast_def.cpp:18:
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures.hpp:306:17: note: template<class T>
stan::lang::expr_type
stan::lang::function_signatures::rng_return_type(const
stan::lang::expr_type&, const stan::lang::expr_type&, const
stan::lang::expr_type&)
    expr_type rng_return_type(const expr_type& t,
                           ^
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures.hpp:306:17: note: template argument
deduction/substitution failed:
In file included from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures_def.hpp:486:0,
                  from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast_def.cpp:119,
                  from lang__ast_def.cpp:18:
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:1341:59: note: cannot convert 't' (type 'const int') to
```

```
type 'const stan::lang::expr_type&'  
    add("von_mises_rng", rng_return_type<double_type>(t, u), t,  
u);  
                                         ^  
  
/home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/function_signature  
s.h:1364:18: error: ISO C++ forbids declaration of 't' with no  
type [-fpermissive]  
    for (const auto& t : all_vector_types) {  
        ^  
  
/home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/function_signature  
s.h:1364:22: error: range-based 'for' loops are not allowed in  
C++98 mode  
    for (const auto& t : all_vector_types) {  
        ^  
  
/home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/function_signature  
s.h:1365:20: error: ISO C++ forbids declaration of 'u' with no  
type [-fpermissive]  
    for (const auto& u : all_vector_types) {  
        ^  
  
/home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/function_signature  
s.h:1365:24: error: range-based 'for' loops are not allowed in  
C++98 mode  
    for (const auto& u : all_vector_types) {  
        ^  
  
/home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/function_signature  
s.h:1366:57: error: no matching function for call to  
'stan::lang::function_signatures::rng_return_type(const int&,  
const int&)'  
    add("weibull_rng", rng_return_type<double_type>(t, u), t,  
u);  
                                         ^  
  
/home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/function_signature  
s.h:1366:57: note: candidates are:  
In file included from /home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/ast.hpp:65:0,  
                  from /home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/StanHeaders/include/src/stan/lang/ast_def.cpp:7,  
                  from lang__ast_def.cpp:18:
```

```
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures.hpp:273:17: note: template<class T>
stan::lang::expr_type
stan::lang::function_signatures::rng_return_type(const
stan::lang::expr_type&)
    expr_type rng_return_type(const expr_type& t);
    ^
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures.hpp:273:17: note:   template argument
deduction/substitution failed:
In file included from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures_def.hpp:486:0,
                  from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast_def.cpp:119,
                  from lang__ast_def.cpp:18:
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:1366:57: note:   cannot convert ‘t’ (type ‘const int’) to
type ‘const stan::lang::expr_type&’
    add("weibull_rng", rng_return_type<double_type>(t, u), t,
u);
    ^
In file included from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast.hpp:65:0,
                  from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast_def.cpp:7,
                  from lang__ast_def.cpp:18:
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures.hpp:289:17: note: template<class T>
stan::lang::expr_type
stan::lang::function_signatures::rng_return_type(const
stan::lang::expr_type&, const stan::lang::expr_type&)
    expr_type rng_return_type(const expr_type& t, const
expr_type& u);
    ^
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures.hpp:289:17: note:   template argument
deduction/substitution failed:
In file included from /home/changy/R/x86_64-redhat-linux-gnu-
```

```
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures_def.hpp:486:0,
        from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast_def.cpp:119,
                from lang_ast_def.cpp:18:
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:1366:57: note:    cannot convert ‘t’ (type ‘const int’) to
type ‘const stan::lang::expr_type&’
    add("weibull_rng", rng_return_type<double_type>(t, u), t,
u);
                                         ^
In file included from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast.hpp:65:0,
        from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast_def.cpp:7,
                from lang_ast_def.cpp:18:
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures.hpp:306:17: note: template<class T>
stan::lang::expr_type
stan::lang::function_signatures::rng_return_type(const
stan::lang::expr_type&, const stan::lang::expr_type&, const
stan::lang::expr_type&)
    expr_type rng_return_type(const expr_type& t,
                           ^
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures.hpp:306:17: note:    template argument
deduction/substitution failed:
In file included from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast/sigs/function_
signatures_def.hpp:486:0,
        from /home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/ast_def.cpp:119,
                from lang_ast_def.cpp:18:
/home/changy/R/x86_64-redhat-linux-gnu-
library/3.5/StanHeaders/include/src/stan/lang/function_signature
s.h:1366:57: note:    cannot convert ‘t’ (type ‘const int’) to
type ‘const stan::lang::expr_type&’
    add("weibull_rng", rng_return_type<double_type>(t, u), t,
u);
                                         ^
```

At global scope:

```
cc1plus: warning: unrecognized command line option "-Wno-  
ignored-attributes" [enabled by default]  
make: *** [lang__ast_def.o] Error 1  
ERROR: compilation failed for package 'rstan'  
* removing '/home/changy/R/x86_64-redhat-linux-gnu-  
library/3.5/rstan'  
Warning in install.packages :  
  installation of package 'rstan' had non-zero exit status
```

The downloaded source packages are in
‘/tmp/RtmpE6CZuG/downloaded_packages’