## langsci-affiliations

Felix Kopecky\*

Version 1.1 – 11th October 2022

## 1 User guide

This package provides a command \ResolveAffiliations, which collects authoraffiliation pairs and outputs them according to the user configuration. It is aimed at class authors, i.e. maintainers of document templates in publishing houses, universities, etc.

\ResolveAffiliations

 $\ResolveAffiliations [\langle options \rangle] \{\langle pairs of authors and affiliations \rangle\}$ 

Takes the  $\{\langle pairs\ of\ authors\ and\ affiliations\rangle\}$ , orders them internally and outputs them according to the  $[\langle options\rangle]$ .

 $\{\langle Pairs\ of\ authors\ and\ affiliations\rangle\}$  is a list of authors and affiliations, separated by a customisable string. The defaults for the separators are and for authors and; for affiliations. The conventional author separator \and is automatically converted to the chosen author separator. Affiliations are given within \affiliation within the  $\{\langle pairs\rangle\}$  argument. This command is not defined by this package and possibly existing definitions are left unchanged.

For example:

```
\ResolveAffiliations{
   A. U. Thor\affiliation{University of the Moon; University of Mars}
   and B. U. Thor\affiliation{University of Mars}
}
results in:
```

A. U. Thor<sup>a,b</sup> & B. U. Thor<sup>b</sup>

<sup>a</sup>University of the Moon <sup>b</sup>University of Mars

The output can be customised using the  $[\langle options \rangle]$ . They are described below.

 $<sup>\</sup>begin{tabular}{ll} *mailto:felix.kopecky@langsci-press.org. & Please submit bug reports and feature requests to https://github.com/langsci/langsci-affiliations/issues. & Please submit bug reports and feature requests to https://github.com/langsci/langsci-affiliations/issues. & Please submit bug reports and feature requests to https://github.com/langsci/langsci-affiliations/issues. & Please submit bug reports and feature requests to https://github.com/langsci/langsci-affiliations/issues. & Please submit bug reports and feature requests to https://github.com/langsci/langsci-affiliations/issues. & Please submit bug reports and feature requests to https://github.com/langsci/langsci-affiliations/issues. & Please submit bug reports and feature requests to https://github.com/langsci/langsci-affiliations/issues. & Please submit bug reports and feature requests to https://github.com/langsci/langsci-affiliations/issues. & Please submit bug reports and feature requests are requested by the please submit bug reports and bug reports are requested by the please submit bug reports are requested by the please submit bug reports and bug reports are requested by the please submit bug reports and bug reports are requested by the please submit bug reports are requested by the please submit$ 

 $\verb|\CountAuthorsFromAffiliations| \\$ 

 $\label{lem:countAuthorsFromAffiliations [(options)] {(pairs of authors and affiliations)}} \\$ 

New: 2021-12-06

A document command to count the numbers of authors given in a list. Useful for conditional behaviour of document classes based on the numbers of authors. It takes the same optional arguments as **\ResolveAffiliations**. For example, a custom author separator is recognised by this command.

The result is stored in the global integer variable  $\g_affiliations_num_authors_-int.$ 

\LinkToORCIDinAffiliations

 $\verb|\LinkToORCIDinAffiliations| \{\langle orcid \rangle\}|$ 

New: 2022-09-27

This document command is intended as a user interface to customise the way ORCIDs are output. For example, it can be set to forward the input ORCIDs to \orcidlink from the orcidlink package:

```
\RenewDocumentCommand{\LinkToORCIDinAffiliations}{ +m }
{%
   \,\orcidlink{#1}%
}
```

## \SetupAffiliations

 $\SetupAffiliations \{\langle options \rangle\}\$ 

Options can be set either globally or locally. With  $\Delta \{options \}$ , they apply globally. If they are set with  $\Delta \{options \}$ , they apply locally.

mark style =  $\langle style \rangle$ 

(initially alphabetic)

Controls which markers should be used in the indexes of affiliations. Can be a either of {alphabetic, numeric, circled, none}.

output affiliation =  $\langle boolean \rangle$ 

(initially true)

Affiliations are output if true, otherwise not.

orcid placement =  $\langle choice \rangle$ 

(initially none)

Decide whether and where to place ORCIDs around author names. Valid choices are {none, before, after}.

output in groups =  $\langle boolean \rangle$ 

(initially true)

If true, authors and affiliations are output in the same line. When false each author and affiliation gets its own line. Only available if output affiliation=true.

output authors font =  $\langle font \ commands \rangle$ 

(initially \Large)

Stores the font settings for the ouput of authors.

output affiliation font =  $\langle font \ commands \rangle$ 

(initially \normalsize)

Stores the font settings for outputting affiliations.

Output separators between authors and affiliations are customisable as well:

separator between two =  $\langle tokens \rangle$ 

(initially ~&~)

If there are only two authors, use these  $\langle tokens \rangle$  to separate them.

separator between multiple =  $\langle tokens \rangle$ 

(initially ,~)

If there are more than two authors, use these  $\langle tokens \rangle$  to separate every pair except the last one.

separator between final two =  $\langle tokens \rangle$ 

(initially ~&~)

Use these  $\langle tokens \rangle$  to separate the last pair of authors if ther are more than two.

separator between affiliations =  $\langle tokens \rangle$ 

(initially,)

Use these to separate affiliations after each author. The affiliations in the affiliation line are always separated by a space.

The way the input is digested can be customised with these two settings:

input names separator =  $\langle tokens \rangle$ 

(initially ~and~)

Separates the author names in the input.

input affiliation separator =  $\langle tokens \rangle$ 

(intially;)

Separates the affiliations in the input, within dummy command \affiliation.

## 2 Implementation

```
1 (*package)
                               2 (00=affiliations)
                               3 \RequirePackage{xparse}
                                4 \ProvidesExplPackage {langsci-affiliations}
                               5 {2022-10-11} {1.1}
                               6 {A LaTeX3 package to collect and order authors and affiliations}
      \ResolveAffiliations The top-level document command. It is grouped to keep assignments local.
                                7 \NewDocumentCommand{\ResolveAffiliations}{ O{} +m }
                                      \group_begin:
                                      \keys_set:nn { affiliations } { #1 }%
                                      \exp_args:No \affiliations_resolve:n { #2 }%
                                      \group_end:
                                   }
                              (End definition for \ResolveAffiliations. This function is documented on page 1.)
\LinkToORCIDinAffiliations
                              The action taken to link to an ORCID. Designed to be overwritten by the user.
                               14 \ProvideDocumentCommand{\LinkToORCIDinAffiliations}{ +m }{ #1 }
                              (End definition for \LinkToORCIDinAffiliations. This function is documented on page 2.)
                              Count authors and leave the result in the global integer variable \g__affiliations_-
       \CountAuthorsFromAffiliations
                              num_authors_int.
                               15 \NewExpandableDocumentCommand{\CountAuthorsFromAffiliations}{ 0{} +m }
                                      \group_begin:
                                      \keys_set:nn { affiliations } { #1 }%
                               18
                                      \exp_args:No \affiliations_count_authors:n { #2 }%
                               19
                                      \group_end:
                               20
                                   }
                               21
                              (End definition for \CountAuthorsFromAffiliations. This function is documented on page 2.)
        \SetupAffiliations
                              A command to define options.
                               22 \NewDocumentCommand{\SetupAffiliations}{ m }
                                      \keys_set:nn { affiliations } { #1 }
                              (End definition for \SetupAffiliations. This function is documented on page 3.)
                               26 \keys_define:nn { affiliations }
                               27
                                     mark~style .tl_set:N
                                          = \l_affiliations_style_tl,
                                      mark~style .initial:n
                                          = { alphabetic },
                               31
                                      {\tt output\mbox{-}affiliation .bool\_set:N}
                               32
                                          = \l_affiliations_output_affiliation_bool,
                               33
                                      output~affiliation .initial:n
                               34
                                          = { true },
                               35
```

```
output~in~groups .initial:n
                                          = { true },
                                43
                                      separator~between~two .tl_set:N
                                44
                                           = \l_affiliations_separator_between_two_tl,
                                45
                                      separator~between~two .initial:n
                                46
                                          = \{ \sim \ \& \sim \}.
                                47
                                      separator~between~multiple .tl_set:N
                                48
                                           = \l_affiliations_separator_between_mult_tl,
                                49
                                      separator~between~multiple .initial:n
                                50
                                           = \{, \sim\},
                                51
                                      separator~between~final~two .tl_set:N
                                52
                                           = \l_affiliations_separator_between_last_two_tl,
                                53
                                      separator~between~final~two .initial:n
                                54
                                           separator~between~affiliations~.tl_set:N
                                56
                                           = \l_affiliations_afil_separator_tl,
                                57
                                      separator~between~affiliations .initial:n
                                58
                                           = {,},
                                59
                                      output~authors~font .cs_set:Np
                                60
                                61
                                           = \__affiliations_output_authors_font:,
                                      output~authors~font .initial:n
                                62
                                63
                                           = {\Large},
                                      output~affiliation~font .cs_set:Np
                                           = \__affiliations_output_affiliation_font:,
                                66
                                      output~affiliation~font .initial:n
                                           = {\normalsize},
                                67
                                68
                                      input~names~separator .tl_set:\mathbb{N}
                                           = \l_affiliations_input_names_sep_tl,
                                69
                                      input~names~separator .initial:n
                                70
                                           = {~and~},
                                71
                                      input~affiliation~separator .tl_set:N
                                72
                                73
                                           = \l_affiliations_input_afil_sep_tl,
                                      input~affiliation~separator .initial:n
                                75
                                          = {;}
               \prop_put:Nxx
                               Variants and variables
               \prop_put:Nnx
          \seq_set_split:Nvn
                                78 \cs_generate_variant:Nn \prop_put:Nnn { Nxx }
 \l_affiliations_tmpa_clist
                                79 \cs_generate_variant:Nn \prop_put:Nnn { Nnx }
                                80 \cs_generate_variant:Nn \seq_set_split:Nnn { NVV }
   \l_affiliations_tmpa_int
                                81 \cs_generate_variant:Nn \seq_set_split:Nnn { NVn }
      \g affiliations num authors int
                                82 \cs_generate_variant:Nn \tl_replace_all:Nnn { NnV }
      \l affiliations affiliations seq
                                83 \clist_new:N \l__affiliations_tmpa_clist
\l_affiliations_authors_seq
                                \l_affiliations_names_seq
                                _{85} \int_new:N \g__affiliations_num_authors_int
   \l_affiliations_tmpa_seq
                                86 \seq_new:N \l__affiliations_affiliations_seq
   \l_affiliations_tmpb_seq
                                87 \seq_new:N \l__affiliations_authors_seq
    \l_affiliations_tmpa_tl
    \l__affiliations_tmpb_tl
\l_affiliations_output_prop
                                                                         5
     \l affiliations affiliations prop
```

orcid~placement .tl\_set:N

orcid~placement .initial:n

output~in~groups .bool\_set:N

= { none },

37

38

39

40

41

42

= \l\_\_affiliations\_orcid\_place\_tl,

= \l\_affiliations\_output\_grouped\_bool,

```
88 \seq_new:N \l__affiliations_names_seq
                                89 \seq_new:N \l__affiliations_tmpa_seq
                                90 \seq_new:N \l__affiliations_tmpb_seq
                                91 \seq_new:N \l__affiliations_tmp_affil_seq
                                92 \seq_new:N \l__affiliations_tmp_orcid_seq
                                93 \tl_new:N \l__affiliations_tmpa_tl
                                94 \tl_new:N \l__affiliations_tmpb_tl
                                95 \tl_new:N \l__affiliations_tmpc_tl
                                96 \prop_new:N \l__affiliations_tmpa_prop
                                97 \prop_new:N \l__affiliations_output_prop
                                98 \prop_new:N \l__affiliations_affiliations_prop
                                99 \prop_new:N \l__affiliations_orcids_prop
                               (End definition for \prop_put:Nxx and others.)
                               The data for the circled mark style. Since this uses the \char, it is only available in
\l_affiliations_icons_prop
                               XeLaTeX.
                                100 \prop_const_from_keyval:Nn \l__affiliations_icons_prop
                               101
                                        0 = \frac{2460}{1} = \frac{2461}{2} = \frac{2462}{3} = \frac{2463}{3}
                               102
                                        4 = \frac{2464}{5} = \frac{2465}{6} = \frac{2466}{7} = \frac{2467}{6}
                                        8 = \frac{2468}{9} = \frac{2469}{10} = \frac{246A}{11} = \frac{246B}{11}
                                104
                                       12 = \frac{246C}{13} = \frac{246D}{14} = \frac{246E}{15} = \frac{246F}{15}
                               105
                                       16 = \frac{2470}{17} = \frac{2471}{18} = \frac{2472}{19} = \frac{2473}{19}
                               106
                               107
                               (End\ definition\ for\ \l_affiliations\_icons\_prop.)
                               A helper macro to order affiliations. Is called by \affiliations resolve:n.
  \ affiliations resolve affiliations:
                                  \cs_new:Npn \__affiliations_resolve_affiliations: #1#2
                               108
                               109
                                       \clist_clear:N \l__affiliations_tmpa_clist
                                       \tl_if_empty:nTF {#2}
                                           \prop_put:Nnn \l__affiliations_output_prop {#1} {}
                                         }
                                114
                                         {
                                           \seq_set_split:NVn \l__affiliations_tmpa_seq
                               116
                                                               \l_affiliations_input_afil_sep_tl
                                                                { #2 }
                                           \seq_map_inline: Nn \l__affiliations_tmpa_seq
                               119
                                               \prop_get:NnNTF \l__affiliations_affiliations_prop
                                                                 {##1}
                                                                 \l_affiliations_tmpa_tl
                               123
                               124
                                                    \clist_put_right:NV \l__affiliations_tmpa_clist
                               125
                                                                         \l__affiliations_tmpa_tl
                               126
                                                 }
                               128
                                                    %Not yet present
                               129
                                                    \clist_put_right:Nx \l__affiliations_tmpa_clist
                               130
```

\prop\_count:N \l\_\_affiliations\_affiliations\_prop

```
{ \prop\_count: N \l_affiliations\_affiliations\_prop }
                             135
                             136
                                           }
                                         \prop_put:NnV \l__affiliations_output_prop
                             138
                                                        {#1}
                             139
                                                        \l_affiliations_tmpa_clist
                             141
                                      }
                                  }
                             142
                            (End definition for \__affiliations_resolve_affiliations:.)
\ affiliations output affiliations:
                            A helper macro that outputs the list of affiliations, usually below the list of authors.
                                \cs_new:Nn \__affiliations_output_affiliations:
                             144
                                    \prop_map_inline: Nn \l__affiliations_affiliations_prop
                             145
                                         \int_set:Nn \l__affiliations_tmpa_int { ##2 }
                             147
                                         \str_case_e:nn { \l__affiliations_style_tl }
                             149
                                             {alphabetic}
                             150
                                               {
                             151
                                                  \textsuperscript{\int_to_alph:n{ \int_eval:n
                             152
                                                    { \l_affiliations_tmpa_int + 1 }
                                               }
                             155
                             156
                                               { \textsuperscript{\int_eval:n {\l__affiliations_tmpa_int + 1} } }
                                             {circled}
                                               {
                                                  \prop_item: Nn \l__affiliations_icons_prop
                                                                 {\l_affiliations_tmpa_int}
                             161
                             162
                                             {none} { }
                             163
                             164
                                         \tl_rescan:nn {} {##1} ~
                             165
                             166
                                  }
                            (End definition for \__affiliations_output_affiliations:.)
 \_affiliations_return_afil_text:n
                            A helper macro that returns the affiliation marks.
                             168 \cs_new:Npn \__affiliations_return_afil_text:n #1
                             169
                                    \int_set:Nn \l__affiliations_tmpa_int { #1 }
                             170
                                    \str_case_e:nn { \l_affiliations_style_tl }
                                         {alphabetic}
                                             \seq_put_right:Nx \l__affiliations_tmpb_seq
                                                                 { \int_to_alph:n{ \int_eval:n {#1 + 1} } }
                             176
                                            }
                                         {numeric}
                             178
                                           {
                             179
```

}

134

\prop\_put:Nnx \l\_\_affiliations\_affiliations\_prop {##1}

```
\seq_put_right:Nx \l__affiliations_tmpb_seq
                         180
                                                            { \int_eval:n {\l_affiliations_tmpa_int + 1} }
                         181
                                      }
                         182
                                    {circled}
                         183
                                       {
                         184
                                         \seq_put_right:Nx \l__affiliations_tmpb_seq
                         185
                                                            { \prop_item: Nn \l_affiliations_icons_prop
                         186
                                                                              { \l_affiliations_tmpa_int} }
                         187
                                      }
                         188
                                    {none} { }
                         189
                                  }
                         190
                              }
                         191
                        (End definition for \__affiliations_return_afil_text:n.)
                        A helper macro to output the list of authors, with affiliation marks (if any).
\_affiliations_output_authors:
                         192 \cs_new:Nn \__affiliations_output_authors:
                              {
                         193
                                \seq_clear:N \l__affiliations_tmpa_seq
                         194
                                \prop_map_inline: Nn \l__affiliations_output_prop
                         195
                         196
                                     \seq_clear:N \l__affiliations_tmpb_seq
                         197
                                    \clist_map_function:nN {##2} \__affiliations_return_afil_text:n
                                    \tl_set:Nn \l_affiliations_tmpb_tl
                         201
                                         \seq_use:Nn \l__affiliations_tmpb_seq
                                                      {\l_affiliations_afil_separator_tl}
                         202
                                      }
                         203
                                    \str_case_e:nn { \l__affiliations_orcid_place_tl }
                         204
                                      {
                         205
                                         {none}
                         206
                                         {
                                           \seq_put_right:Nx \l__affiliations_tmpa_seq
                         208
                                               \tl_rescan:nn {} {##1}
                                               \exp_not:N \textsuperscript{\tl_use:N \l__affiliations_tmpb_tl}
                                        }
                                         {before}
                         214
                                         ₹
                                           \seq_put_right:Nx \l__affiliations_tmpa_seq
                         216
                                               \exp_not:N \__affiliations_recover_orcid:n { ##1 }
                         218
                                               \tl_rescan:nn {} {##1}
                         219
                                               \exp_not:N \textsuperscript{\tl_use:N \l__affiliations_tmpb_tl}
                         220
                                             }
                                        }
                                         {after}
                         224
                                         {
                                           \seq_put_right:Nx \l__affiliations_tmpa_seq
                         225
                                             {
                         226
                                               \tl_rescan:nn {} {##1}
                                               \exp_not:N \__affiliations_recover_orcid:n { ##1 }
                         228
                                               \exp_not:N \textsuperscript{\tl_use:N \l__affiliations_tmpb_tl}
                         229
```

```
}
230
                }
          }
        \seq_use:Nnnn \l_affiliations_tmpa_seq
234
                         {\l_affiliations_separator_between_two_tl}
235
                         {\l_affiliations_separator_between_mult_tl}
236
                         {\l_affiliations_separator_between_last_two_tl}
     }
(End definition for \__affiliations_output_authors:.)
The main macro.
239 \cs_new:Npn \affiliations_resolve:n #1
240
        \tl_set:Nn \l__affiliations_tmpc_tl { #1 }
241
        \tl_replace_all:NnV \l__affiliations_tmpc_tl
242
                             \{ \and \}
243
                             \l_affiliations_input_names_sep_tl
244
        \seq_set_split:NVV \l__affiliations_names_seq
245
                            \l_affiliations_input_names_sep_tl
246
                            \l_affiliations_tmpc_tl
247
```

Regex-parsing: We store the  $\{\langle affiliations \rangle\}$  found in \affiliation to a separate sequence, and the  $\{\langle orcid \rangle\}$  found in \orcid to another sequence.

```
253
            \regex_extract_once:nnN
254
              {\c\{affiliation\} \cB. (\c[^BE].*) \cE.}
              { ##1 }
257
              \l_affiliations_tmp_affil_seq
258
259
           \regex_extract_once:nnN
              {\c{orcid} \cB. (\c[^BE].*) \cE.}
260
              { ##1 }
261
              \l_affiliations_tmp_orcid_seq
262
```

\seq\_map\_inline: Nn \l\_\_affiliations\_names\_seq

\tl\_clear\_new:N \l\_\_affiliations\_names\_tmp\_tl
\tl\_set:Nn \l\_affiliations\_names\_tmp\_tl { ##1 }

Now strip all instances of \affiliations{ $\langle list \rangle$ } and \orcid { $\langle id \rangle$ } to receive the name of the author.

And store the data in two separate property lists.

272

251 252

\affiliations\_resolve:n

```
\prop_put:Nxx \l__affiliations_tmpa_prop
           { \tl_use:N \l__affiliations_names_tmp_tl }
274
           { \seq_item: Nn \l__affiliations_tmp_affil_seq {2} }
275
276
           \prop_put:Nxx \l__affiliations_orcids_prop
277
           { \tl_use:N \l_affiliations_names_tmp_tl }
278
           { \seq_item: Nn \l_affiliations_tmp_orcid_seq {2} }
279
280
       \bool_if:NTF \l__affiliations_output_affiliation_bool
281
282
           \bool_if:NTF \l__affiliations_output_grouped_bool
283
284
                \prop_map_function:NN \l__affiliations_tmpa_prop
285
                                        \__affiliations_resolve_affiliations:
286
                \group_begin:
287
                  \__affiliations_output_authors_font:
288
                  \__affiliations_output_authors:
289
                \group_end:\\[0.5ex]
290
                \group_begin:
                  \__affiliations_output_affiliation_font:
                  \__affiliations_output_affiliations:
                \group_end:
294
             }
295
             {
296
                \seq_clear:N \l__affiliations_tmpa_seq
297
                \prop_map_inline: Nn \l__affiliations_tmpa_prop
298
299
                    \str_case_e:nn { \l_affiliations_orcid_place_tl }
300
301
                        {none}
                        {
                          \seq_put_right:Nx \l__affiliations_tmpa_seq
305
                            {
                               \group_begin:
306
                                 \exp_not:N \__affiliations_output_authors_font:
307
                                 tl_rescan:nn {} {\#1}\\\[0.5ex]
308
                               \group_end:
309
                               \group_begin:
310
311
                                 \exp_not:N \__affiliations_output_affiliation_font:
                                 \tl_rescan:nn {} {##2}
                               \group_end:
                            }
                        }
315
                        {before}
316
                        {
317
                          \seq_put_right:Nx \l__affiliations_tmpa_seq
318
319
320
                               \group_begin:
                                 \exp_not:N \__affiliations_output_authors_font:
321
322
                                 \exp_not:N \__affiliations_recover_orcid:n { ##1 }
323
                                 \tl_rescan:nn {} {##1}\\[0.5ex]
324
                               \group_end:
325
                               \group_begin:
                                 \exp_not:N \__affiliations_output_affiliation_font:
326
```

```
\tl_rescan:nn {} {##2}
327
                              \group_end:
328
                            }
329
                       }
330
                       {after}
331
332
                          \seq_put_right:Nx \l__affiliations_tmpa_seq
333
334
335
                              \group_begin:
                                \verb|\exp_not:N \  \  | \_affiliations_output_authors_font: \\
336
                                \tl_rescan:nn {} {##1}
337
                                338
                              \group_end:
339
                              \group_begin:
340
                                \exp_not:N \__affiliations_output_affiliation_font:
341
                                \tl_rescan:nn {} {##2}
342
                              \group_end:
343
                            }
                       }
                     }
                 }
               \seq_use: Nnnn \l__affiliations_tmpa_seq
348
                                {\l_affiliations_separator_between_two_tl}
349
                                {\l_affiliations_separator_between_mult_tl}
350
                                {\l_affiliations_separator_between_last_two_tl}
351
             }
352
         }
353
354
           \group_begin:
355
           \__affiliations_output_authors_font:
           \seq_clear:N \l__affiliations_tmpa_seq
357
           \prop_map_inline: Nn \l_affiliations_tmpa_prop
358
350
               \str_case_e:nn { \l__affiliations_orcid_place_tl }
360
                 {
361
                   {none}
362
                     {
363
                        \seq_put_right:Nx \l__affiliations_tmpa_seq
                                          { \tl_rescan:nn {} {##1} }
                     }
                   {before}
                        \seq_put_right:Nx \l__affiliations_tmpa_seq
370
                                             \exp_not:N \__affiliations_recover_orcid:n { ##1 }
371
                                             \tl_rescan:nn {} {##1}
372
373
                     }
374
                   {after}
375
376
377
                        \seq_put_right:Nx \l__affiliations_tmpa_seq
378
                                          {
                                             \tl_rescan:nn {} {##1}
379
                                             \exp_not:N \__affiliations_recover_orcid:n { ##1 }
380
```

```
}
                         381
                                               }
                         382
                                             }
                         383
                                       }
                         384
                                     \seq_use:Nnnn \l__affiliations_tmpa_seq
                         385
                                                      {\l_affiliations_separator_between_two_tl}
                                                      {\l_affiliations_separator_between_mult_tl}
                                                      {\l_affiliations_separator_between_last_two_tl}
                                     \group_end:
                                  }
                         390
                              }
                         391
                         (End definition for \affiliations_resolve:n.)
                        Count the numbers of authors and saves the result in the global integer variable \g_--
 \affiliations count authors:n
                         affiliations_num_authors_int.
                            \cs_new:Npn \affiliations_count_authors:n #1
                         393
                              {
                                \tl_set:Nn \l__affiliations_tmpc_tl { #1 }
                                \tl_replace_all:NnV \l__affiliations_tmpc_tl
                         395
                                                      { \and }
                         396
                                                      \l_affiliations_input_names_sep_tl
                         397
                                \seq_set_split:NVV \l__affiliations_names_seq
                         398
                                                     \l_affiliations_input_names_sep_tl
                         399
                                                     \l_affiliations_tmpc_tl
                         400
                                \int_gset:Nn \g__affiliations_num_authors_int
                         401
                                     \seq_count:N \l__affiliations_names_seq }
                              }
                         (End\ definition\ for\ \affiliations\_count\_authors:n.)
                        Return the ORCID associated with an author.
\ affiliations recover orcid:n
                            \cs_new:Npn \__affiliations_recover_orcid:n #1
                                \prop_get:NnNTF \l__affiliations_orcids_prop { #1 }
                         406
                                  \l_affiliations_tmpd_tl
                         407
                                   {
                         408
                                     \tl_if_empty:NTF \l__affiliations_tmpd_tl
                         409
                                       % No ORCID present; no action done.
                         410
                                       { }
                         411
                                       {
                         412
                                         \LinkToORCIDinAffiliations{\tl_use:N \l__affiliations_tmpd_tl}
                         413
                         415
                                  \% No database entry for author; no action done.
                         416
                                  { }
                         417
                              }
                         418
                         (End definition for \__affiliations_recover_orcid:n.)
                         419 (/package)
```