

# langsci-affiliations

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## 1 User guide

This package provides a command `\ResolveAffiliations`, which collects author–affiliation 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.

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|                                   |   |
|-----------------------------------|---|
| <code>\ResolveAffiliations</code> | <code>\ResolveAffiliations [<i>options</i>] {<i>pairs of authors and affiliations</i>}</code> |
|-----------------------------------|---|

---

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

`{Pairs of authors and affiliations}` 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 `{pairs}` 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 `[options]`. They are described below.

---

|                                 |  |
|---------------------------------|--|
| <code>\SetupAffiliations</code> | <code>\SetupAffiliations {<i>options</i>}</code> |
|---------------------------------|--|

---

Options can be set either globally or locally. With `\SetupAffiliations{options}`, they apply globally. If they are set with `\ResolveAffiliations[options]`, they apply locally.

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`mark style =  $\langle style \rangle$`  (initially `alphabetic`)  
 Controls which markers should be used in the indexes of affiliations. Can be 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 output of authors.

`output affiliation font =  $\langle font commands \rangle$`  (initially `\normalsize`)  
 Stores the font settings for outputting affiliations.

`output authors paragraph format =  $\langle layout settings \rangle$`  (initially `\raggedright`)  
 Stores the paragraph settings for the author block. These settings are only applied if `output in groups=true`.

`output affiliation paragraph format =  $\langle layout settings \rangle$`  (initially `\raggedright`)  
 Stores the paragraph settings for the affiliation block. These settings are only applied if `output in groups=true`.

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 there are more than two.

`separator between indices =  $\langle tokens \rangle$`  (initially `,`)  
 Use these to separate affiliation indices after each author.

`separator between affiliations =  $\langle tokens \rangle$`  (initially `\_`)  
 Separates the affiliations in the affiliation line.

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 =  $\langle tokens \rangle$`  (initially `;`)  
 Separates the affiliations in the input, within dummy command `\affiliation`.

|  |  |
|--|--|
| <code>\CountAuthorsFromAffiliations</code> | <code>\CountAuthorsFromAffiliations [<i>&lt;options&gt;</i>] {<i>&lt;pairs of authors and affiliations&gt;</i>}</code> |
| 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`.

|   |  |
|---|--|
| <code>\LinkToORCIDinAffiliations</code> | <code>\LinkToORCIDinAffiliations {<i>&lt;orcid&gt;</i>}</code> |
|---|--|

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}%
  }
```

## 2 Implementation

```
1 <*package>
2 <@@=affiliations>
3 \RequirePackage{xparse}
4 \ProvidesExplPackage {langsci-affiliations} {2024-02-27} {1.3}
5 {A LaTeX3 package to collect and order authors and affiliations}
```

**`\ResolveAffiliations`** The top-level document command. It is grouped to keep assignments local.

```
6 \NewDocumentCommand{\ResolveAffiliations}{ 0{} +m }
7   {%
8     \group_begin:
9     \keys_set:nn { affiliations } { #1 }%
10    \exp_args:No \affiliations_resolve:n { #2 }%
11    \group_end:
12  }
```

*(End of 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.

```
13 \ProvideDocumentCommand{\LinkToORCIDinAffiliations}{ +m }{ #1 }
```

*(End of definition for \LinkToORCIDinAffiliations. This function is documented on page 3.)*

**`\CountAuthorsFromAffiliations`** Count authors and leave the result in the global integer variable `\g__affiliations_num_authors_int`.

```
14 \NewExpandableDocumentCommand{\CountAuthorsFromAffiliations}{ 0{} +m }
15   {%
16     \group_begin:
17     \keys_set:nn { affiliations } { #1 }%
```

```

18 \exp_args:No \affiliations_count_authors:n { #2 }%
19 \group_end:
20 }

```

(End of definition for `\CountAuthorsFromAffiliations`. This function is documented on page 3.)

**`\SetupAffiliations`** A command to define options.

```

21 \NewDocumentCommand{\SetupAffiliations}{ m }
22 {%
23 \keys_set:nn { affiliations } { #1 }
24 }

```

(End of definition for `\SetupAffiliations`. This function is documented on page 1.)

```

25 \keys_define:nn { affiliations }
26 {
27 mark~style .tl_set:N
28 = \l__affiliations_style_tl,
29 mark~style .initial:n
30 = { alphabetic },
31 output~affiliation .bool_set:N
32 = \l__affiliations_output_affiliation_bool,
33 output~affiliation .initial:n
34 = { true },
35 orcid~placement .tl_set:N
36 = \l__affiliations_orcid_place_tl,
37 orcid~placement .initial:n
38 = { none },
39 output~in~groups .bool_set:N
40 = \l__affiliations_output_grouped_bool,
41 output~in~groups .initial:n
42 = { true },
43 separator~between~two .tl_set:N
44 = \l__affiliations_separator_between_two_tl,
45 separator~between~two .initial:n
46 = { ~\&~ },
47 separator~between~multiple .tl_set:N
48 = \l__affiliations_separator_between_mult_tl,
49 separator~between~multiple .initial:n
50 = { ,~ },
51 separator~between~final~two .tl_set:N
52 = \l__affiliations_separator_between_last_two_tl,
53 separator~between~final~two .initial:n
54 = { ~\&~ },
55 separator~between~indices .tl_set:N
56 = \l__affiliations_indices_separator_tl,
57 separator~between~indices .initial:n
58 = { , },
59 separator~between~affiliations .tl_set:N
60 = \l__affiliations_afil_separator_tl,
61 separator~between~affiliations .initial:n
62 = { ~ },
63 output~authors~paragraph~format .cs_set:Np
64 = \__affiliations_output_authors_paragraph_format:,
65 output~authors~paragraph~format .initial:n

```

```

66         = {\raggedright},
67     output~authors~font .cs_set:Np
68         = \__affiliations_output_authors_font:,
69     output~authors~font .initial:n
70         = {\Large},
71     output~affiliation~font .cs_set:Np
72         = \__affiliations_output_affiliation_font:,
73     output~affiliation~font .initial:n
74         = {\normalsize},
75     output~affiliation~paragraph~format .cs_set:Np
76         = \__affiliations_output_affiliation_paragraph_format:,
77     output~affiliation~paragraph~format .initial:n
78         = {\raggedright},
79     input~names~separator .tl_set:N
80         = \l__affiliations_input_names_sep_tl,
81     input~names~separator .initial:n
82         = {\~and~},
83     input~affiliation~separator .tl_set:N
84         = \l__affiliations_input_afil_sep_tl,
85     input~affiliation~separator .initial:n
86         = {};
87 }

```

\prop\_put:Nxx

\prop\_put:Nnx

Variants and variables

```

88
89 \cs_generate_variant:Nn \prop_put:Nnn { Nxx }
90 \cs_generate_variant:Nn \prop_put:Nnn { Nnx }
91 \cs_generate_variant:Nn \seq_set_split:Nnn { NVV }
92 \cs_generate_variant:Nn \seq_set_split:Nnn { NVn }
93 \cs_generate_variant:Nn \tl_replace_all:Nnn { NnV }
94 \clist_new:N \l__affiliations_tmpa_clist
95 \int_new:N \l__affiliations_tmpa_int
96 \int_new:N \g__affiliations_num_authors_int
97 \seq_new:N \l__affiliations_affiliations_seq
98 \seq_new:N \l__affiliations_authors_seq
99 \seq_new:N \l__affiliations_names_seq
100 \seq_new:N \l__affiliations_tmpa_seq
101 \seq_new:N \l__affiliations_tmpb_seq
102 \seq_new:N \l__affiliations_tmp_affil_seq
103 \seq_new:N \l__affiliations_tmp_orcid_seq
104 \tl_new:N \l__affiliations_tmpa_tl
105 \tl_new:N \l__affiliations_tmpb_tl
106 \tl_new:N \l__affiliations_tmppc_tl
107 \prop_new:N \l__affiliations_tmpa_prop
108 \prop_new:N \l__affiliations_output_prop
109 \prop_new:N \l__affiliations_affiliations_prop
110 \prop_new:N \l__affiliations_orcids_prop

```

(End of definition for \prop\_put:Nxx and others.)

\l\_\_affiliations\_icons\_prop

The data for the circled mark style. Since this uses the \char, it is only available in XeLaTeX.

```

111 \prop_const_from_keyval:Nn \l__affiliations_icons_prop
112 {

```

```

113     0 = \char"2460, 1 = \char"2461, 2 = \char"2462, 3 = \char"2463,
114     4 = \char"2464, 5 = \char"2465, 6 = \char"2466, 7 = \char"2467,
115     8 = \char"2468, 9 = \char"2469, 10 = \char"246A, 11 = \char"246B,
116     12 = \char"246C, 13 = \char"246D, 14 = \char"246E, 15 = \char"246F,
117     16 = \char"2470, 17 = \char"2471, 18 = \char"2472, 19 = \char"2473
118 }

```

(End of definition for \l\_\_affiliations\_icons\_prop.)

\\_affiliations\_resolve\_affiliations: A helper macro to order affiliations. Is called by \affiliations\_resolve:n.

```

119 \cs_new:Npn \_affiliations_resolve_affiliations: #1#2
120 {
121   \clist_clear:N \l__affiliations_tmpa_clist
122   \tl_if_empty:nTF {#2}
123   {
124     \prop_put:Nnn \l__affiliations_output_prop {#1} {}
125   }
126   {
127     \seq_set_split:NVn \l__affiliations_tmpa_seq
128       \l__affiliations_input_afil_sep_tl
129       { #2 }
130     \seq_map_inline:Nn \l__affiliations_tmpa_seq
131     {
132       \prop_get:NnNTF \l__affiliations_affiliations_prop
133         {##1}
134         \l__affiliations_tmpa_tl
135       {
136         \clist_put_right:NV \l__affiliations_tmpa_clist
137           \l__affiliations_tmpa_tl
138       }
139       {
140         %Not yet present
141         \clist_put_right:Nx \l__affiliations_tmpa_clist
142         {
143           \prop_count:N \l__affiliations_affiliations_prop
144         }
145         \prop_put:Nnx \l__affiliations_affiliations_prop {##1}
146         { \prop_count:N \l__affiliations_affiliations_prop }
147       }
148     }
149     \prop_put:NnV \l__affiliations_output_prop
150       {#1}
151       \l__affiliations_tmpa_clist
152   }
153 }

```

(End of definition for \\_affiliations\_resolve\_affiliations:.)

\\_affiliations\_output\_affiliations: A helper macro that outputs the list of affiliations, usually below the list of authors.

```

154 \cs_new:Nn \_affiliations_output_affiliations:
155 {
156   \prop_map_inline:Nn \l__affiliations_affiliations_prop
157   {
158     \int_set:Nn \l__affiliations_tmpa_int { ##2 }
159     \str_case_e:nn { \l__affiliations_style_tl }

```

```

160     {
161       {alphabetic}
162       {
163         \textsuperscript{\int_to_alph:n{ \int_eval:n
164           { \l__affiliations_tmpa_int + 1 } }
165         } }
166       }
167       {numeric}
168       { \textsuperscript{\int_eval:n { \l__affiliations_tmpa_int + 1 } } }
169       {circled}
170       {
171         \prop_item:Nn \l__affiliations_icons_prop
172           { \l__affiliations_tmpa_int }
173       }
174       {none} { }
175     }
176     \tl_rescan:nn {} {##1}
177     \int_compare:nNnT
178       { \int_eval:n { \l__affiliations_tmpa_int + 1 } }
179       <
180       { \prop_count:N \l__affiliations_affiliations_prop }
181       { \tl_use:N \l__affiliations_afil_separator_tl }
182   }
183 }

```

(End of definition for `\__affiliations_output_affiliations:.`)

`\__affiliations_return_afil_text:n` A helper macro that returns the affiliation marks.

```

184 \cs_new:Npn \__affiliations_return_afil_text:n #1
185 {
186   \int_set:Nn \l__affiliations_tmpa_int { #1 }
187   \str_case_e:nn { \l__affiliations_style_tl }
188   {
189     {alphabetic}
190     {
191       \seq_put_right:Nx \l__affiliations_tmpb_seq
192         { \int_to_alph:n{ \int_eval:n {#1 + 1} } }
193     }
194     {numeric}
195     {
196       \seq_put_right:Nx \l__affiliations_tmpb_seq
197         { \int_eval:n { \l__affiliations_tmpa_int + 1 } }
198     }
199     {circled}
200     {
201       \seq_put_right:Nx \l__affiliations_tmpb_seq
202         { \prop_item:Nn \l__affiliations_icons_prop
203           { \l__affiliations_tmpa_int } }
204     }
205     {none} { }
206   }
207 }

```

(End of definition for `\__affiliations_return_afil_text:n`)

`\__affiliations_output_authors:` A helper macro to output the list of authors, with affiliation marks (if any).

```

208 \cs_new:Nn \__affiliations_output_authors:
209 {
210   \seq_clear:N \l__affiliations_tmpa_seq
211   \prop_map_inline:Nn \l__affiliations_output_prop
212   {
213     \seq_clear:N \l__affiliations_tmpb_seq
214     \clist_map_function:nN {##2} \__affiliations_return_afil_text:n
215     \tl_set:Nn \l__affiliations_tmpb_tl
216     {
217       \seq_use:Nn \l__affiliations_tmpb_seq
218       {\l__affiliations_indices_separator_tl}
219     }
220     \str_case_e:nn { \l__affiliations_orcid_place_tl }
221     {
222       {none}
223       {
224         \seq_put_right:Nx \l__affiliations_tmpa_seq
225         {
226           \tl_rescan:nn {} {##1}
227           \exp_not:N
228             \textsuperscript{\tl_use:N \l__affiliations_tmpb_tl}
229         }
230       }
231       {before}
232       {
233         \seq_put_right:Nx \l__affiliations_tmpa_seq
234         {
235           \exp_not:N \__affiliations_recover_orcid:n { ##1 }
236           \tl_rescan:nn {} {##1}
237           \exp_not:N
238             \textsuperscript{\tl_use:N \l__affiliations_tmpb_tl}
239         }
240       }
241       {after}
242       {
243         \seq_put_right:Nx \l__affiliations_tmpa_seq
244         {
245           \tl_rescan:nn {} {##1}
246           \exp_not:N \__affiliations_recover_orcid:n { ##1 }
247           \exp_not:N
248             \textsuperscript{\tl_use:N \l__affiliations_tmpb_tl}
249         }
250       }
251     }
252   }
253   \seq_use:Nnnn \l__affiliations_tmpa_seq
254   {\l__affiliations_separator_between_two_tl}
255   {\l__affiliations_separator_between_mult_tl}
256   {\l__affiliations_separator_between_last_two_tl}
257 }

```

*(End of definition for \\_\_affiliations\_output\_authors:.)*



\affiliations\_resolve:n The main macro.

```

258 \cs_new:Npn \affiliations_resolve:n #1
259 {
260   \tl_set:Nn \l__affiliations_tmpc_tl { #1 }
261   \tl_replace_all:NnV \l__affiliations_tmpc_tl
262     { \and }
263     \l__affiliations_input_names_sep_tl
264   \seq_set_split:NVV \l__affiliations_names_seq
265     \l__affiliations_input_names_sep_tl
266     \l__affiliations_tmpc_tl
267   \seq_map_inline:Nn \l__affiliations_names_seq
268     {
269       \tl_clear_new:N \l__affiliations_names_tmp_tl
270       \tl_set:Nn \l__affiliations_names_tmp_tl { ##1 }
271     }

```

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

```

272
273   \regex_extract_once:nnN
274     {\c{affiliation} \cB. (\c[~BE].*) \cE.}
275     { ##1 }
276     \l__affiliations_tmp_affil_seq
277
278   \regex_extract_once:nnN
279     {\c{orcid} \cB. (\c[~BE].*) \cE.}
280     { ##1 }
281     \l__affiliations_tmp_orcid_seq
282

```

Now strip all instances of \affiliations $\{\langle\textit{list}\rangle\}$  and \orcid  $\{\langle\textit{id}\rangle\}$  to receive the name of the author. Also trim all leading and trailing spaces that remain after affiliation and ORCID replacement.

```

283
284   \regex_replace_all:nnN {\c{orcid} \cB. (\c[~BE].*) \cE.}
285     {}
286     \l__affiliations_names_tmp_tl
287   \regex_replace_all:nnN {\c{affiliation} \cB. (\c[~BE].*) \cE.}
288     {}
289     \l__affiliations_names_tmp_tl
290
291   \tl_trim_spaces:N \l__affiliations_names_tmp_tl
292

```

And store the data in two separate property lists.

```

293
294   \prop_put:Nxx \l__affiliations_tmpa_prop
295     { \tl_use:N \l__affiliations_names_tmp_tl }
296     { \seq_item:Nn \l__affiliations_tmp_affil_seq {2} }
297
298   \prop_put:Nxx \l__affiliations_orcids_prop
299     { \tl_use:N \l__affiliations_names_tmp_tl }
300     { \seq_item:Nn \l__affiliations_tmp_orcid_seq {2} }
301   }
302   \bool_if:NTF \l__affiliations_output_affiliation_bool

```

```

303 {
304   \bool_if:NTF \l__affiliations_output_grouped_bool
305   {
306     \prop_map_function:NN \l__affiliations_tmpa_prop
307       \__affiliations_resolve_affiliations:
308     \group_begin:
309       \noindent
310       \parbox {\linewidth}
311       {
312         \__affiliations_output_authors_paragraph_format:
313         \__affiliations_output_authors_font:
314         \__affiliations_output_authors:
315       }
316     \group_end:\smallskip\\
317     \group_begin:
318     \parbox {\linewidth}
319     {
320       \__affiliations_output_affiliation_paragraph_format:
321       \__affiliations_output_affiliation_font:
322       \__affiliations_output_affiliations:
323     }
324     \group_end:
325   }
326   {
327     \seq_clear:N \l__affiliations_tmpa_seq
328     \prop_map_inline:Nn \l__affiliations_tmpa_prop
329     {
330       \str_case_e:nn { \l__affiliations_orcid_place_tl }
331       {
332         {none}
333         {
334           \seq_put_right:Nx \l__affiliations_tmpa_seq
335           {
336             \group_begin:
337             \exp_not:N \__affiliations_output_authors_font:
338             \tl_rescan:nn {} {##1}
339             \group_end:\\[0.5ex]
340             \group_begin:
341             \exp_not:N \__affiliations_output_affiliation_font:
342             \tl_rescan:nn {} {##2}
343             \group_end:
344           }
345         }
346       {before}
347       {
348         \seq_put_right:Nx \l__affiliations_tmpa_seq
349         {
350           \group_begin:
351           \exp_not:N \__affiliations_output_authors_font:
352           \exp_not:N \__affiliations_recover_orcid:n { ##1 }
353           \tl_rescan:nn {} {##1}\\[0.5ex]
354           \group_end:
355           \group_begin:
356           \exp_not:N \__affiliations_output_affiliation_font:

```

```

357         \tl_rescan:nn {} {##2}
358     \group_end:
359 }
360 }
361 {after}
362 {
363     \seq_put_right:Nx \l__affiliations_tmpa_seq
364     {
365         \group_begin:
366         \exp_not:N \__affiliations_output_authors_font:
367         \tl_rescan:nn {} {##1}
368         \exp_not:N \__affiliations_recover_orcid:n { ##1 }
369         \\[0.5ex]
370         \group_end:
371         \group_begin:
372         \exp_not:N \__affiliations_output_affiliation_font:
373         \tl_rescan:nn {} {##2}
374         \group_end:
375     }
376 }
377 }
378 }
379 \noindent
380 \seq_use:Nnnn \l__affiliations_tmpa_seq
381     {\l__affiliations_separator_between_two_tl}
382     {\l__affiliations_separator_between_mult_tl}
383     {\l__affiliations_separator_between_last_two_tl}
384 }
385 }
386 {
387     \group_begin:
388     \__affiliations_output_authors_font:
389     \seq_clear:N \l__affiliations_tmpa_seq
390     \prop_map_inline:Nn \l__affiliations_tmpa_prop
391     {
392         \str_case_e:nn { \l__affiliations_orcid_place_tl }
393         {
394             {none}
395             {
396                 \seq_put_right:Nx
397                 \l__affiliations_tmpa_seq
398                 { \tl_rescan:nn {} {##1} }
399             }
400             {before}
401             {
402                 \seq_put_right:Nx
403                 \l__affiliations_tmpa_seq
404                 {
405                     \exp_not:N \__affiliations_recover_orcid:n { ##1 }
406                     \tl_rescan:nn {} {##1}
407                 }
408             }
409             {after}
410             {

```

```

411         \seq_put_right:Nx
412         \l__affiliations_tmpa_seq
413         {
414             \tl_rescan:nn {} {##1}
415             \exp_not:N \__affiliations_recover_orcid:n { ##1 }
416         }
417     }
418 }
419 }
420 \seq_use:Nnnn \l__affiliations_tmpa_seq
421     {\l__affiliations_separator_between_two_tl}
422     {\l__affiliations_separator_between_mult_tl}
423     {\l__affiliations_separator_between_last_two_tl}
424 \group_end:
425 }
426 }

```

(End of definition for \affiliations\_resolve:n.)

\affiliations\_count\_authors:n Count the numbers of authors and saves the result in the global integer variable \g\_\_affiliations\_num\_authors\_int.

```

427 \cs_new:Npn \affiliations_count_authors:n #1
428 {
429     \tl_set:Nn \l__affiliations_tmpc_tl { #1 }
430     \tl_replace_all:NnV \l__affiliations_tmpc_tl
431         { \and }
432         \l__affiliations_input_names_sep_tl
433     \seq_set_split:NVV \l__affiliations_names_seq
434         \l__affiliations_input_names_sep_tl
435         \l__affiliations_tmpc_tl
436     \int_gset:Nn \g__affiliations_num_authors_int
437         { \seq_count:N \l__affiliations_names_seq }
438 }

```

(End of definition for \affiliations\_count\_authors:n.)

\\_\_affiliations\_recover\_orcid:n Return the ORCID associated with an author.

```

439 \cs_new:Npn \__affiliations_recover_orcid:n #1
440 {
441     \prop_get:NnNTF \l__affiliations_orcids_prop { #1 }
442     \l__affiliations_tmpd_tl
443     {
444         \tl_if_empty:NTF \l__affiliations_tmpd_tl
445             % No ORCID present; no action done.
446             { }
447             {
448                 \LinkToORCIDinAffiliations{\tl_use:N \l__affiliations_tmpd_tl}
449             }
450     }
451     % No database entry for author; no action done.
452     { }
453 }

```

(End of definition for \\_\_affiliations\_recover\_orcid:n.)

454 </package>