**Research Graph Metadata Elements (version 2.0)**

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|  | **Element** | **Definition** | **Mandatory, Optional** | **Data Type** | **Maximum occurrence**  **(N=unbounded)** | **Examples** |
|  | registryObjects | The root element of the schema. Examples of registry objects are researchers, publications, datasets, grants and the relations between them. | M |  | 1 |  |
| 1.0 | researchers | A collection of researchers; the parent element of ‘researcher’. | O |  | 1 |  |
| 1.1 | researcher | An individual researcher | M |  | N |  |
| 1.1.1 | key | The key identifying a researcher as specified by the data provider. Syntax:{metadata-provider-domain}/{local\_id} | M | xsd:anyURI | 1 | sydney.edu.au/00144fdd4fa6 |
| 1.1.2 | source | The provider of the researcher information. | M | xsd:anyURI | 1 |  |
| 1.1.3 | local\_id | The local identifier of the researcher. | M | xsd:string | 1 |  |
| 1.1.4 | last\_updated | The date of the last update of the researcher record | M | xsd:dateTime | 1 |  |
| 1.1.5 | url | The landing page of the researcher | O | xsd:anyURI | 1 |  |
| 1.1.6 | full\_name | The full name of the researcher | M | xsd:string | 1 |  |
| 1.1.7 | first\_name | The first name of the researcher | M | xsd:string | 1 |  |
| 1.1.8 | last\_name | The last name of the researcher | M | xsd:string | 1 |  |
| 1.1.9 | orcid | The ORCID identifier of the researcher | O | xsd:anyURI | 1 |  |
| 1.1.10 | scopus\_author\_id | The researcher’s scopus author id | O | xsd:string | 1 |  |
| 2.0 | publications | A collection of publications; the parent element of ‘publication’. | O |  | 1 |  |
| 2.1 | publication | An individual publication | M |  | N |  |
| 2.1.1 | key | The key identifying a publication as specified by the data provider | M | xsd:anyURI | 1 |  |
| 2.1.2 | source | The provider of the publication information. | M | xsd:anyURI | 1 |  |
| 2.1.3 | local\_id | The local identifier of the publication. | M | xsd:string | 1 |  |
| 2.1.4 | last\_updated | The date of the last update of the publication record | M | xsd:dateTime | 1 |  |
| 2.1.5 | url | The landing page of the publication | O | xsd:anyURI | 1 |  |
| 2.1.6 | title | The title of the publication. | M | xsd:string | 1 |  |
| 2.1.7 | authors\_list | The authors of the publication. Specify a comma-separated list of authors. | M | xsd:string | 1 |  |
| 2.1.8 | doi | The DOI assigned to the publication | O | xsd:anyURI | 1 |  |
| 2.1.9 | publication\_year | The year when the publication was made publically available (YYYY) | O | xsd:gYear | 1 |  |
| 2.1.10 | scopus\_eid | The scopus electronic id of the publication. | O | xsd:string | 1 |  |
| 3.0 | datasets | A collection of datasets; the parent element of ‘dataset’. | O |  | 1 |  |
| 3.1 | dataset | An individual dataset | M |  | N |  |
| 3.1.1 | key | The key identifying a dataset | M | xsd:anyURI | 1 |  |
| 3.1.2 | source | The provider of the dataset information. | M | xsd:anyURI | 1 |  |
| 3.1.3 | local\_id | The local identifier of the dataset. | M | xsd:string | 1 |  |
| 3.1.4 | last\_updated | The date of the last update of the dataset record | M | xsd:dateTime | 1 |  |
| 3.1.5 | url | The landing page of the dataset | O | xsd:anyURI | 1 |  |
| 3.1.6 | title | The title of the dataset. | M | xsd:string | 1 |  |
| 3.1.8 | doi | The DOI assigned to the dataset. | O | xsd:anyURI | 1 |  |
| 3.1.9 | publication\_year | The year when the dataset was made publically available | O | xsd:gYear | 1 |  |
| 3.1.10 | license | The URL of the license associated with the dataset. | O | xsd:anyURI | 1 | http://creativecommons.org/licenses/by/3.0/ |
| 3.1.11 | megabyte | The size of the dataset | O | xsd:decimal |  |  |
| 4.0 | grants | A collection of grants; the parent element of ‘grant’. | O |  | 1 |  |
| 4.1 | grant | An individual grant | M |  | N |  |
| 4.1.1 | key | The key identifying a grant | M | xsd:anyURI | 1 |  |
| 4.1.2 | source | The provider of the grant information. | M | xsd:anyURI | 1 |  |
| 4.1.3 | local\_id | The preferred value for local\_id is the grant number. | M | xsd:string | 1 |  |
| 4.1.4 | last\_updated | The date of the last update of the grant record | M | xsd:dateTime | 1 |  |
| 4.1.5 | url | Landing page of the grant information | O | xsd:anyURI | 1 |  |
| 4.1.6 | title | Grant title, a human readable information about the grant. This has been set to optional because in some case the title of the grant is not available. | O | xsd:string | 1 |  |
| 4.1.8 | purl | The persistent uniform resource locator (PURL) of the grant; recommended syntax: http://purl.org/au-research/grants/ ...  At the time of creating this schema, this element is only applicable to Australian grants funded by ARC and NHMRC. | O | xsd:anyURI | 1 |  |
| 4.1.9 | participant\_list | A comma-separated list of grant participants. It is derived from the grant proposal, and often complement the grant title to make the grant recognisable for human users. | O | xsd:string | 1 |  |
| 4.1.10 | funder | The funding agency to organizarion | M | xsd:anyURI | 1 |  |
| 4.1.11 | start\_year | The start year (YYYY) of the grant. | O | xsd:gYear |  |  |
| 4.1.12 | end\_year | The end year (YYYY) of the grant | O | xsd:gYear |  |  |
| 5.0 | relations | A collection of relations between registry objects; the parent element of ‘relation’. | O |  |  |  |
| 5.1 | relation | The relation between a registry object and its related object. | M |  |  |  |
| 5.1.1 | from\_key | The key value for the source object. This value of this element should exist in the registry. | M | xsd:anyURI |  |  |
| 5.1.2 | to\_uri | The target object identified by ORCID, DOI, PURL, and other identifier system, or the key of related registry object. | M | xsd:anyURI |  |  |
| 5.1.3 | label | The relation type between two registry objects. Currently, the default value of this element is ‘relatedTo’. We will extend the element values with different relation types. | O | xsd:string |  |  |