

## “CRedit” taxonomy of contributor roles

In order to facilitate the transparency of the authors' contribution, since June 2019 Virtus Interpress approves a decision about the “CRedit” taxonomy of contributor roles. Doing so, we ask our authors to use this taxonomy when providing an Author Contributions section for research papers. With reference to recent paper by [Brand et al. \(2015\)](#), we provide the taxonomy. Also, we provide an example of a recent Author Contributions section reorganized to use this format.

Term	Definition
<b>Conceptualization</b>	Ideas; formulation or evolution of overarching research goals and aims
<b>Methodology</b>	Development or design of methodology; creation of models
<b>Software</b>	Programming, software development; designing computer programs; implementation of the computer code and supporting algorithms; testing of existing code components
<b>Validation</b>	Verification, whether as a part of the activity or separate, of the overall replication/ reproducibility of results/experiments and other research outputs
<b>Formal Analysis</b>	Application of statistical, mathematical, computational, or other formal techniques to analyze or synthesize study data
<b>Investigation</b>	Conducting a research and investigation process, specifically performing the experiments, or data/evidence collection
<b>Resources</b>	Provision of study materials, reagents, materials, patients, laboratory samples, animals, instrumentation, computing resources, or other analysis tools
<b>Data Curation</b>	Management activities to annotate (produce metadata), scrub data and maintain research data (including software code, where it is necessary for interpreting the data itself) for initial use and later reuse
<b>Writing – Original Draft</b>	Preparation, creation and/or presentation of the published work, specifically writing the initial draft (including substantive translation)
<b>Writing – Review &amp; Editing</b>	Preparation, creation and/or presentation of the published work by those from the original research group, specifically critical review, commentary or revision – including pre- or postpublication stages
<b>Visualization</b>	Preparation, creation and/or presentation of the published work, specifically visualization/ data presentation
<b>Supervision</b>	Oversight and leadership responsibility for the research activity planning and execution, including mentorship external to the core team
<b>Project Administration</b>	Management and coordination responsibility for the research activity planning and execution
<b>Funding Acquisition</b>	Acquisition of the financial support for the project leading to this publication.

*Reproduced from [Brand et al. \(2015\)](#), *Learned Publishing* 28(2).*

The **corresponding author** is responsible for providing the contributions of all authors at submission. Such info should be written after the section "Keywords" at the title page of the paper. We expect that all authors will have reviewed, discussed, and agreed to their individual contributions ahead of this time. Contributions will be published with the final article, and they should accurately reflect contributions to the work.

Individual contributors can be assigned multiple roles, and a given role can be assigned to multiple contributors.

Contributors who *do not meet the criteria for authorship* should be mentioned in the [Acknowledgments](#). It is expected that those being acknowledged have given their permission to be named.

### Sample Author Contributions

The following example shows an Author Contributions section applied to the accepted paper after its revision.

*Conceptualization - R.D.; Methodology - S.A.; Writing – R.D, S.A.; Investigation – R.T.; Funding – S.A.; Resources - S.A. and R.D.; Supervision – R.T.*