What is CRediT?
The Contributor Roles Taxonomy’s 14 roles and best practices represent a simple but comprehensive system that enables the range and nature of contributions to scholarly published output to be captured in a transparent, consistent, and structured format. [ANSI/NISO Z39.104-2022]
Origins

• In mid-2012 the Wellcome Trust and Harvard University co-hosted a workshop to bring together members of the academic, publishing, and funder communities interested in exploring alternative contributorship and attribution models.

• ICMJE participated in a pilot project established to develop a controlled vocabulary of contributor roles (taxonomy) that could be used to describe the typical range of ‘contributions’ to scholarly published output for biomedical and science more broadly.

• The aim was to develop a taxonomy that was both practical and easy to understand while minimizing the potential for misuse.
CRediT: 14 roles

- Conceptualization
- Data curation
- Formal analysis
- Funding acquisition
- Investigation
- Methodology
- Project administration
- Resources
- Software
- Supervision
- Validation
- Visualization
- Writing – original draft
- Writing – review & editing
More than 75 percent decline over 27 years in total flying insect biomass in protected areas

Caspar A. Hallmann, Martin Sorg, Eelke Jongejans, Henk Siepel, Nick Hofland, Heinz Schwan, Werner Stenmans, Andreas Müller, Robert Sumser, Thomas Hörren, Dave Goulson, Hans de Kroon

Published: October 18, 2017 • https://doi.org/10.1371/journal.pone.0185809

Abstract

Global declines in insects have sparked wide interest among scientists, politicians, and the general public. Loss of insect diversity and abundance is expected to provoke cascading effects on food webs and to jeopardize ecosystem services. Our understanding of the extent and underlying causes of this decline is based on the abundance of single species or taxonomic groups only, rather than changes in insect biomass which is more relevant for ecological functioning. Here, we used a standardized protocol to measure total insect biomass using Malaise traps, deployed over 27 years in 63 nature protection areas in Germany (96 unique
More than 75 percent decline over 27 years in total flying insect biomass in protected areas

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Our results indicate a widespread and severe decrease in insect diversity, abundance, and biomass in protected areas over the past 27 years. This decline may be driven by a combination of factors, including climate change, urbanization, and habitat loss. The decline in insect diversity and abundance is of concern because insects are important pollinators and ecosystem engineers. The decline in biomass is of concern because insects are a key component of the global carbon cycle. Our results suggest that the decline in insect diversity, abundance, and biomass is a serious threat to the health of ecosystems.
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The age of heterozygous telomerase mutant parents influences the adult phenotype of their offspring irrespective of genotype in zebrafish [version 2; referees: 2 approved]

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Ian M. Sealy
Roles: Data Curation, Formal Analysis, Visualization

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Roles: Conceptualization, Funding Acquisition, Resources, Supervision, Writing – Original Draft Preparation, Writing – Review & Editing
Milestones

- Standardization
- Funding
- Publication/study
- Adoption
- Award!
Challenges

• Authorship doesn’t reflect range and nature of contribution
• … nor support accountability
• There has been a demise of the lone author (in most disciplines)
• … and a trend to Team Science (in many disciplines)
• Demand for information to support research assessment
• … accompanied by a ‘publish or perish’ culture
• Space limitations have gone away!
• And information about what ‘authors’ actually did is useful!
Challenges

- Awareness & Implementation
- Data collection and tracking

Contributor Roles: In-session survey results from FORCE 2021 Workshop
Who is CRedit?
Adopter types

- Publishers
- Infrastructure providers
- Institutions, Funders
Community

Working group + NISO

Steering group + NISO

Community of Interest

JOIN US!
Thank you!

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