

# A Competency Framework for Digital Curation and Data Science

A proposal for collective action to align existing work within the community, extend coverage to other groups, and provide a common reference model

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# ***Rationale for the Proposal***

- A key theme of the ANADP Education discussion and recommendations is the need for a consistent and coherent way of defining and categorizing skills needs
- Education needs of some important actors in the world of open research data have been flagged in reports, but
  - have not been getting sufficient attention (e.g. practitioners in less specialized roles, the general public)
  - have not been pursued in a coordinated way (e.g. grad students being educated by LIS faculty and library practitioners)
- We need to pull together the good work already done and ensure that it can be put to good use by everyone



## ***Examples of Existing Work***

- RDM Roles, Rights, Responsibilities, Requirements and Relationships Table (Lyon, 2007, 2012)
- DCC Curation Lifecycle Model (Higgins, 2008, 2012)
- RDMF2 Core Skills Diagram (Pryor & Donnelly, 2009)
- DigCCurr Matrix of Knowledge and Competencies (Lee, 2009)
- RDM Pyramid for Libraries (Lewis, 2010; Corrall, 2012)
- Researcher Development Framework (Vitae, 2010)
- 7 Pillars of Information Literacy Research Lens (SCONUL, 2011)
- Core Competencies for Data Information Literacy (Carlson et al., 2011)
- DaMSSI Career Profiles (RIN & DCC, 2011)
- DigCurV Evaluation Framework (Karvelyte et al., 2012)
- Information Literacy Lens on the RDF (Vitae, 2012)

*Not an exhaustive list – omits most library case studies*



# *The Proposed Framework*

- should specify types and levels of skills and knowledge for particular activities, tasks, roles, in the research cycle
- would enable mapping of competency/awareness needs to specific professional jobs and non-specialist interests
  - liaison librarians, repository managers, technology specialists;
  - citizen scientists, amateur curators/family archivists
- could be used in training, education and communication with both information and research professionals (specialists and generalists) and lay people
  - also in recruitment, performance appraisal, and career planning
- existing skills frameworks might act as possible models
  - KIM Professional Skills Framework (UK Government)
  - Skills Framework for the Information Age (UK IT Industry)