John Ernest Kratz, PhD

WEB PRESENCE

Email:// **johnkratz@gmail.com**
Website:// **johnkratz.io**
Twitter:// **@john_kratz**
ORCID:// **0000-0002-9610-5370**
ImpactStory:// **JohnKratz**
LinkedIn:// **johnekratz**
Github:// **JEK-III**

EDUCATION

COLUMBIA UNIVERSITY

PhD in Biological Sciences
New York, NY | October 2010

RICE UNIVERSITY

BFA in Photography
BA in Biology
Houston, TX | May 2000

UCSD EXTENSION

C/C++ Programming Certificate
San Diego, CA | December 2012

SKILLS

User Experience Design
Workflows • Wireframes • Interactive Prototypes • Responsive Design • Visual Design

Research & User Modeling
Survey Design and Analysis • Usability Testing • User Personas • Comparative Analysis

Computer & Software
• UX Design: Axure, InDesign, Sketch
• Data Analysis: Jupyter, Pandas, SciPy
• Imaging: Adobe Photoshop, ImageJ
• Language/Syntax: C/C++, LaTeX, Markdown, Python

EXPERIENCE

CALIFORNIA DIGITAL LIBRARY

University of California Curation Center | Oakland, CA

User Experience Designer | 2015 - present

CLIR/DLF Postdoctoral Fellow in Data Curation | 2013 - 2015

- **User Experience Design:** Wrote use cases and user stories for the **Dash** data publication application and service. Conducted comparative analysis of similar data services and of scholarly journals. Built wireframe and prototype designs. Planned and conducted usability testing with researchers. Liaised between back-end developers, front-end developer, and external visual designer. Currently UI designer for a front-end redesign of **eScholarship** – an institutional repository and publishing platform.

- **User Research:** Studied current practices, attitudes, and values pertaining to research data in the library, publishing, and research communities. Wrote, administered, and analyzed online surveys to understand user needs around research data publication. Conducted a focused investigation of data metrics that drove functional requirements for the **DataCite Event Data** application. Created several cross-service CDL user personas to facilitate unified and interoperable services.

- **Community engagement:** Presented research at local and international meetings. Wrote posts for DataPub blog and an associated guide to data citation. Revised data management guidance for the DMPTool website.

COLUMBIA UNIVERSITY

Department of Biological Sciences | New York, NY

PhD Candidate | 2002 – 2010

- Applied methods from neurobiology, bioinformatics, and genetics to study the nematode representatives of an ancient and ubiquitous protein family. Collaborated with WormAtlas to characterize protein family expression and subcellular localization.

- Mentored two undergraduate research technicians.

JOHNS HOPKINS UNIVERSITY

Department of Neuropathology | Baltimore, MD

Senior Laboratory Technician | 2000 - 2002

- Studied role of Wnt signaling pathways in a common pediatric brain tumor. Characterized transgenic mouse strains and managed mouse colony.

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AFFILIATIONS & SERVICE

Berkeley Institute for Data Science	2015 - present
Future of Research Communications and e-Scholarship (FORCE11)	2014 - present
Data Citation Implementation WG	
Software Citation WG	
Research Data Alliance (RDA)	2014 - present
Co-Chair, Data Bibliometrics WG	
Electronic Frontier Foundation	2008 - present

FELLOWSHIPS

FORCE11 Travel Fellowship	2016
RDA/US Fellowship	2014 - 2015
CLIR/DLF Postdoctoral Fellowship in Data Curation for the Sciences and Social Sciences	2013 - 2015
National Institutes of Health Training Grant	2005 - 2007
Columbia University Presidential Fellowship	2002 - 2010

SELECTED PUBLICATIONS

J. E. Kratz and C. Strasser, **Making data count.** Sci Data 2:150039 (2015). doi:10.1038/sdata.2015.39

J. Star, E. Castro, M. Crosas, M. Dumontier, R. R. Downs, R. Duerr, L. Haak, M. Haendel, I. Herman, S. Hodson, J. Hourclé, **J. E. Kratz** , Lin J, Nielsen LH, Nurnberger A, Pröll S, Rauber A, Sacchi S, Smith AP, Taylor M, Clark T. **Achieving human and machine accessibility of cited data in scholarly publications.** PeerJ Comp Sci: 1e1 (2015). doi:10.7717/peerj-cs.1

J. E. Kratz and C. Strasser, **Researcher perspectives on publication and peer review of data.** PLOS ONE 10(2): e0117619 (2015). doi:10.1371/journal.pone.0117619

J. E. Kratz and C. Strasser, **Data publication consensus and controversies.** F1000Research 3:94 (2014). doi:10.12688/f1000research.3979.3

J. E. Kratz , What is the circadian clock? in **The Where, The What & The How: 75 Artists Illustrate the Wondrous Mysteries of the Universe.** Ed. Julia Rothman. Chronicle Books, September 2012. isbn:9781452108223

J.E Kratz , **Prohibitin Homology Domain Proteins in Caenorhabditis elegans.** Doctoral Dissertation, Columbia University (2010). doi:10.7916/D88051FN

SELECTED PRESENTATIONS

J. E. Kratz , J. Chodacki, S. Abrams, M. Strong, D. Moles, and B. Vedula, **Dash: Data Sharing Made Easy.** Poster, FORCE2016, Portland, Oregon (April 18, 2016). doi:10.6084/m9.figshare.3180007.v1

J. E. Kratz , S. Abrams, S. Faenza, S. Fisher, N. Hoebelheinrich, M. Strong, and B. Vedula, **Dash: Data Sharing Made Easy.** Presentation, RDA 6th Plenary Meeting. Paris, France (September 23, 2015). doi:10.5281/zenodo.32181

C. Duke, T. Vision, R. Wakimoto, M. Ramamurthy, **J. E. Kratz** , 'Data' Panel. Panel discussion, Arnold Workshop II: Reproducibility in the Field Sciences. Washington, D. C. (May 11, 2015).

D. Valen, J. Cachat, A. E. Hodge, and **J. E. Kratz,** **Navigating the data management ecosystem.** Panel discussion, Shaking It Up: Challenges and Solutions in Scholarly Information Management. San Francisco, California (April 22, 2015).

J. Lin, M. Jones, M. Fenner, and **J. E. Kratz,** **Making Data Count: Measuring Data Use and Reach.** Presentation, DataONE Webinar Series (April 14, 2015).

J. E. Kratz and C. Strasser, **Making Data Count.** Presentation, RDA 5th Plenary Meeting. San Diego, California (March 9, 2015).

J. E. Kratz and C. Strasser, **Researcher perspectives on publication and peer review of data.** Poster, FORCE 2015. Oxford, UK (January 12, 2015). doi:10.5281/zenodo.13967

J. E. Kratz and C. Strasser, **What does "data publication" mean to researchers?** Presentation, DLF Forum. Atlanta, Georgia (October 27, 2014). doi:10.5281/zenodo.13969