Michael Lenard

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EDUCATION

M.S.I.   Information, University of Michigan, 2020

M.S.   Physical Chemistry, University of Michigan, 2017

B.A.   Political Science, Michigan State University, 2011

B.S.   Physics, Michigan State University, 2011

PROFESSIONAL AND ACADEMIC INTERESTS

Semantics-based knowledge organization: linked data, taxonomies, and ontologies

Research data: data curation and management, access to research data, data cleaning and processing, developing and documenting transparent data workflows

The Library's role in science: Outreach, open & equitable access, citizen & community science projects

WORK, RESEARCH, & PROJECT EXPERIENCE

2020–   Summer Librarian, University of Michigan Biological Station

2019–   Research Assistant, Thomer Lab, University of Michigan School of Information

2018–20   Resident & Program Assistant, Shapiro Design Lab, University of Michigan Library

2019   Technical Services Project Assistant, University of Michigan Library

2015–17   Research Assistant, Geva Laboratory, University of Michigan Dept. of Chemistry

2013–14   Research Assistant, Hoogstraten Laboratory, Michigan State University Dept. of Biochemistry and Molecular Biology

TEACHING EXPERIENCE

University of Michigan

SI 666: Organization of Information Resources (Graduate Student Instructor)

SI 106: Programs, Information, and People (Graduate Student Instructor)

SI 699: Digital Curation Mastery Course (Tutor)

CHEM 125/126: General Chemistry Laboratory I & II (Graduate Student Instructor)

CHEM 453: Biophysical Chemistry I (Graduate Student Instructor)

CHEM 260/261: Chemical Principles & Introduction to Quantum Chemistry (Graduate Student Instructor)

CHEM 230: Physical Chemical Principles and Applications (Graduate Student Instructor)

Michigan State University

PHY 184: Physics for Scientists and Engineers II (Teaching Assistant)

PHY 232: Introductory Physics II (Teaching Assistant)

PHY 191: Physics Laboratory for Scientists, I (Teaching Assistant)

PHY 251: Introductory Physics Laboratory I (Teaching Assistant)

PHY 102: Physics Computations I (Teaching Assistant)

PUBLICATIONS

Articles

2017   Wiley, T.; Arruda, B.; Miller, N.; Lenard, M.; Sension, R. "Excited electronic states and internal conversion in cyanocobalamin." *CCL* 2015 26 (4): 439–44. DOI: https://doi.org/10.1016/j.cclet.2015.03.003

2015   Jafari, M.; Welden, A.; Williams, K.; Winograd, B.; Hendrickson, H.; Lenard, M.; Gottfried, A.; Geva, E. "Compute-to-Learn: Authentic Learning via Development of Interactive Computer Demonstrations within a Peer-Led Studio Environment." *J. Chem. Ed.* 2017 94 (12): 1896–1903. DOI: https://pubs.acs.org/doi/10.1021/acs.jchemed.7b00032#

PRESENTATIONS

Posters

2020   Lenard, M. "Zooniverse Data Workflows." Poster presented at: UMSI QuasiCon; February 2020; Ann Arbor, MI.

SKILLS

Knowledge of scientific literature and the scientific research process

Experience with XML, JSON, RDF, RDFS/SKOS/OWL, and various other data and metadata standards

Competency with Python, R, SQL, SPARQL, OpenRefine, Protégé, Mathematica

Familiarity with data cleaning and wrangling techniques and statistical analyses

AWARDS, HONORS, AND FELLOWSHIPS

2019   Rackham Diversity, Equity, and Inclusion Certificate

2014–17   Rackham Science Award (Fellowship)

2011–12   Kaplan, Strangis and Kaplan Law School Scholarship

2011–12   Dean's Distinguished Scholarship

2010   Herbert T. Graham Scholarship

2006–10   Michigan Competitive Scholarship

PREVIOUS AFFILIATIONS

Graduate Employees Organization #3550

Asylum Law Project

American Constitution Society

Minnesota Justice Foundation

Society of Physics Students

q Undergraduate Association for Linguistics at Michigan State

Updated July 2020