

Samantha Walkow

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EDUCATION

- 2018 - Current **In progress – PhD in Informatics**, University of Illinois at Urbana-Champaign
Doctoral Advisor: Dr. Matthew Turk
- 2014 **B.S., Psychology**, Purdue University
- 2014 **B.A., Sociology**, Purdue University

RESEARCH INTERESTS

- My research interests include understanding motivates behind using and re-purposing a software tool for scientific inquiry.
- Additionally, how open source software communities interact build and sustain scientific software tools.

RESEARCH EXPERIENCE

- 2018 – Current **Graduate Research Assistant, Data Exploration Lab**
Department of Informatics, University of Illinois at Urbana-Champaign
Principal Investigator: Matthew Turk
- Investigate and develop open source libraries involved in loading, representing and visualizing natural sciences data.
 - Work closely with the open source communities to expand the codebase, learn about the community dynamics and to understand the open source development process.
 - Work closely with a multidisciplinary team to understand software needs and habits
 - Investigating and designing studies to better understand mental models involved in describing scientific data representation and visualization.
- 2014-2015 **Independent Research Project**
Purdue University
Co-Author: Kayla Donaldson
- Designed and proposed a research project focusing on sleep habits of preterm infants
 - Applied ANOVA, multiple regression and descriptive statistics for project
 - Wrote a formal research paper to be transferred to a poster format and presented at Purdue University Science Symposium
- 2013-2014 **Research Assistant, Developmental Studies Lab**
Purdue University
Principal Investigator: Dr. AJ Schwichtenberg
- Collected data through online and paper surveys for a study focusing on sleep habits and their relationships to the onset of autism in infants
 - Created surveys through online software (Qualitrics)
 - Prepped paperwork and interview area for participants
 - Recorded sleep habits with the use of video recorder, actigraphs, and analyzed data

COMMUNITY TEACHING EXPERIENCE

Athletic teaching and coaching experience

- 2015-Present **Support Worker**, Canucks Autism Network, Vancouver
- Work one on one with children with Autism basic developmental skills through sports
 - Assist head coach in implementing the lesson plan
- 2013-2014 **Volunteer Assistant Track and Field Coach**, Purdue University
- Worked head coach to implement workouts, plan and coordinate track meets
 - Work with collegiate athletes to gain fitness and perform various events at competitions

CONFERENCE PRESENTATIONS

Oral Presentations:

- 2019 *Developing a Cross-Domain Grammar of Analysis of Volumetric Datasets*
Co-Presenter, iSchool Research Showcase, University of Illinois at Urbana-Champaign
Location: Urbana, Illinois
- 2018 *Build-My-Calc, REDCap Creative Use Cases*
Presenter, REDCap Conference 2019
Location: Chicago, Illinois

Poster Presentations:

- 2019 *Interdisciplinarity in Data Analysis: Reference Implementations of Domain Context Systems in yt*
SciPy (Scientific Computing with Python) 2019
Location: Austin, Texas
- 2018 *The yt Project: Visualizing and Analyzing Volumetric Data Across Domains*
Midwest Big Data Hub All Hands Meeting
Location: Cleveland, Ohio
- 2016 *BC Children's Hospital Admin Toolbox*
Poster Presenter and Winner for best poster, REDCap Conference 2016
Location: Charlotte, North Carolina
- 2015 Poster Presenter, Purdue Undergraduate Research Symposium, Purdue University
Location: West Lafayette, Indiana

AWARDS, SCHOLARSHIPS AND FELLOWSHIPS

- 2018 – Current HASTAC Scholar
- January – May 2019 Mozilla Open Leaders Culture Track Participant

PROFESSIONAL EXPERIENCE

- 2015-2018 **Coordinator, Research Data Management**
BC Children's Hospital, Vancouver, Canada
Direct Supervisor: Elodie Portales-Casamar
- Learn and understand REDCap software (electronic data capture program)
 - Contribute to the REDCap Community website and knowledgebase
 - Provide training and support for research teams working in REDCap
 - Manage and update BCCH Data Management and REDCap training website

- Coordinate REDCap software validation for version updates
- Plan, coordinate the BCCH Data Management Communications Effort
- Learn and evaluate several different Electronic Lab Notebook software including Labguru, SciNote and ELabFTW
- Provide support and training for the REDCap Mobile App

TECHNICAL EXPERIENCE

- Proficient in Python
- Proficient in R

REFERENCES

Dr. Matthew Turk, PhD

Assistant Professor, School of Information Sciences

Research Assistant Professor, Department of Astronomy

Faculty Affiliate, National Center for Supercomputing Applications

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Dr. Elodie Portales-Casamar, PhD

Clinical Assistant Professor, Division of Allergy & Immunology, Department of Pediatrics, UBC

Clinical Research Informatics Lead, BC Children's Hospital

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Dr. AJ Schwichtenberg, PhD

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