William Kyle Hamilton

CONTACT INFORMATION

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EDUCATION

University of California, Merced, Merced, CA

Doctor of Philosophy, Psychology, Expected 2020
Faculty Advisor: Linda Cameron, Ph.D.

University of California, Merced, Merced, CA

Bachelor of Arts, Psychology, June 2012
Minor in Political Science

Reedley College, Reedley, CA

Associate of Arts, Social Science, August 2010
Cum Laude

PROFESSIONAL EXPERIENCE

University of California, Merced - School of Natural Science

Lab Assistant III   **July 2012 to present**

- Directed a team of 6 student workers to maintain chemistry labs.
- Updated inventory, logged orders, maintained chemical creation records.
- Instructed student workers on laboratory techniques including standardizing chemical solutions, equipment maintenance, and lab safety protocol.

University of California, Merced - Health Communications and Interventions Lab

Research Assistant   **August 2011 to present**

- Analyzed data for ongoing health related studies.
- Collected and organized data for graduate student projects.
- Led workshops covering R and Amazon Mechanical Turk.
- Preformed in-depth literature reviews on health related topics.
- Managed a team of 7 coders on an emotional expression project including scheduling, inter-rater reliability, and preliminary results generation.
- Organized and designed the cameronhcilab.com website.

University of California, Merced - Dr. Sarah Depaoli

Research Assistant   **June 2014 to present**

- Setup cluster computing systems on Amazon Web Services for graduate student simulation projects.
- Organized a distributed computer system to cost effectively run computationally intensive models.
- Prepared documents and figures for publication in Latex.
- Designed a system for removing MPlus errors from simulation data.
- Assisted graduate students with data cleaning and other tasks as assigned.
- Organized and designed the sarahdepaoli.com website.

BSK Analytical Laboratories

Senior Microbiology Laboratory Technician   **February 2010 to July 2012**

- Ran Water Suitability tests on laboratory DI water.
- Wrote an SOP for the testing of inhibitory residue on laboratory glassware.
- Reviewed SOPs to ensure that they met ELAP standards.
- Updated and revised laboratory SOPs to the latest edition of Standard Methods.
- Helped develop an SOP for the Quanti-Tray 2000 system from IDEXX.
- Assisted in the production and QC of media and agar.

CONFERENCE POSTERS

[1] **Hamilton, W.** (2014). Perceptions of Electronic Cigarettes. Poster presented at the Association for Psychological Science 26th Annual Convention, San Francisco, CA.

[2] Carroll, P and **Hamilton, W.** (2014). Positive Discipline Parenting Scale: Reliability and Validity of a Measure. Poster presented at the Association for Psychological Science 26th Annual Convention, San Francisco, CA.

PUBLICATIONS

[1] Carroll, P and **Hamilton, W.** (In Press). Positive Discipline Parenting Scale: Reliability and Validity of a Measure. *Journal of Individual Psychology.*

RESEARCH REPORTS

[1] **Hamilton, W.** (2014). Sober Living Facilities: Review and Recommendations for Merced County *Merced County Mental Health Services.*

SOFTWARE

[1] **Hamilton, W.** and Mizumoto, A. (2014) *IRTShiny*: R package for running item response theory analysis though an interactive web interface with Shiny. CRAN GitHub

[2] **Hamilton, W.** and Mizumoto, A. (2014) *MAVIS*: R package for running a meta-analysis though an interactive web interface with Shiny. CRAN GitHub

[3] **Hamilton, W.** and Mizumoto, A. (2014) *PACA*: R package for running principal component analysis though an interactive web interface with Shiny. GitHub

[4] **Hamilton, W.** (2014) *RCryptsy*: R package for accessing information from the Cryptsy crypto currency exchange API. CRAN GitHub

[5] **Hamilton, W.** (2014) *RStars*: R package for accessing information about exoplants, stars, and galaxies from the Digital Universe Data API. GitHub

TEACHING EXPERIENCE

Fall 2014 - Guest Lecturer
Poli 213 Graduate Experimental Methods Political Science
Lecture: Mechanical Turk Best Practices and Methods

WORKSHOPS AND TUTORIALS

ASCEND Conference: On and Off-Campus Opportunities Every Student Should Know
August 26, 2014 at the University of California, Merced.
Alumni Participant, New student orientation shared experiences on and off campus, explained campus opportunities in research, community volunteering, and career resources.

Alumni Career Chat: Research
March 13, 2014 at the University of California, Merced.
Alumni Participant, Career panel for students at UC Merced to learn more about research opportunities on campus.

Mechanical Turk and Amazon Web Services Workshop
February 3rd, 2014 at the University of California, Merced.
Workshop Leader, Workshop geared towards social science researchers who had never used Amazon Web Services or Mechanical Turk. Emphasis placed on political science research methods.

Mechanical Turk and Amazon Web Services Workshop
December 5, 2013 at the University of California, Merced.
Workshop Leader, Workshop geared towards social science researchers who had never used Amazon Web Services or Mechanical Turk. Emphasis placed on psychological science research methods.

ACADEMIC SERVICE	***University of California Merced Alumni Association Scholarship Review Committee*** Alumni Representative, University of California, Merced. 2015.

University of California Merced Alumni Association Scholarship Review Committee
Alumni Representative, University of California, Merced. 2015.

Assistant Vice Chancellor for Development and Alumni Relations Search Committee
Alumni Representative, University of California, Merced. 2014.

Provost and Executive Vice Chancellor Search Committee
Student Representative, University of California, Merced. 2011-2012.

Fellowships and Undergraduate Research Symposium
Chair, University of California, Merced. 2011-2012.

Undergraduate Council
Student Representative, University of California, Merced. 2010-2012.

COMMUNITY SERVICE

University of California, Merced Alumni Association
Board Member, University of California, Merced. 2013-Present.

Merced County Advisory Board on Alcohol and Other Drug Problems
Board Member, Merced County Board of Supervisors. 2013-Present.

PROFESSIONAL SERVICE

Ad Hoc Reviewer
- Shinde, M. (Eds.) (In Press). Learning Shiny. Birmingham, United Kingdom: Packt Publishing.

PROFESSIONAL MEMBERSHIPS

Foundation for Open Access Statistics, Member, 2015–present

rOpenScience, Community Member, 2014–present

Association for Psychological Science (APS), Student Member, 2013–present

American Psychological Association, Student Member (APA), 2012–present
- Division 32 Health Psychology, Student Member, 2012–present

COMPUTER SKILLS

Computer Programming:
- Python, R

Brain-Computer Interface:
- NeuroSky MindWave

Data and Numerical Analysis:
- R, SPSS, Open Refine,

Spectroscopy Software
- Ocean Optics OceanView
- Ocean Optics SpectraSuite

Survey Data Collection:
- Qualtrics, Lime Survey, Survey Monkey

Information/Internet Technology:
- Cloud Services: Amazon Web Services, Microsoft Azure
- Content Management Systems: Drupel, Wordpress

Desktop Editing and Productivity Software:
- LaTeX, Microsoft Office, OpenOffice.org, Google Docs
- Adobe Photoshop, GIMP, Microsoft Visio

R skill set:
- Bayesian Inference: Bayesian First Aid
- Crowdsourcing: MTurkR†
- Data Visualization: ggplot2, ggvis, plotly, rMaps, geojsonio
- High-Performance Computing: doMC, doSNOW, doMPI, Rcpp, rPython
- Meta-Analysis: meta, metafor
- Psychometric Models and Methods: CTT, ltm, MplusAutomation
- Sentiment Analysis: indicoio
- Shiny Applications: shiny, shinyAce
- Social Networking: twitteR, Rfacebook
- Web Technologies: RCurl, httr
  †: Contributed Documentation

Operating Systems:
- Microsoft Windows family, Linux, FreeBSD

AWARDS

University of California, Merced
- Undergraduate Service to Student Affairs, Spring 2012
- Chancellor's Honor List, Spring 2012
- Dean's Honor List, Fall 2011
- Psi Chi Honor Fraternity, Fall 2011
- Dean's Honor List, Spring 2011

Reedley College
- Dean's Honor List, Spring 2010
- Dean's Honor List, Fall 2009
- Dean's Honor List, Fall 2008

LICENSES AND
CERTIFICATIONS

Amateur Radio License
Technician Class, Federal Communications Commission, 2000-2020

CITI Health Information Privacy and Security (HIPS) for Students and Instructors
Collaborative Institutional Training Initiative, 2012-2014.

Social and Behavioral Responsible Conduct of Research Course
Collaborative Institutional Training Initiative, 2012-2014.

Emergency Medical Technician - Basic
National Registry of Emergency Medical Technicians, 2008-2010.