William Kyle Hamilton

CONTACT
INFORMATION

School of Social Sciences, Humanities and Arts
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EDUCATION

University of California, Merced, Merced, CA

Doctoral Student, Psychological Sciences, 2015-present
Faculty Advisor: Linda Cameron, Ph.D.
Area of Study: Health Psychology

University of California, Merced, Merced, CA

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

Reedley College, Reedley, CA

Associate of Arts, Social Science, August 2010
Cum Laude

RESEARCH
EXPERIENCE

University of California, Merced - Health Communications and Interventions Lab

Research Assistant   **August 2011 to August 2015**

- 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 August 2015**

- 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.

TEACHING
EXPERIENCE

University of California, Merced
Guest Lecturing Experience - Political Science

Fall 2014 Poli 213 Graduate Experimental Methods Political Science

Lecture Mechanical Turk Best Practices and Methods

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 exoplanets, stars, and galaxies from the Digital Universe Data API. GitHub
WORKSHOPS AND TUTORIALS	*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.
INVITED PANELS AND TALKS	*Degree Attainment for Returning and Transfer Scholars (DARTS) Panel* *September 4, 2014 at the University of California, Merced.* Alumni Participant, Panel discussion with UC President Janet Napolitano covering the challenges facing Community College transfer students.
	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.
	Fiat Lux Alumni Panel - Calvin E. Bright Success Center *March 31, 2014 at the University of California, Merced.* Alumni Participant, Panel discussion with first generation college students on adapting to life at the University.

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.

ACADEMIC SERVICE

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

ACADEMIC 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

FELLOWSHIP AWARDS

University of California, Merced
- John & Victoria Elia Fellowship, $4,000, 2015-2016.

LICENSES AND CERTIFICATIONS

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

Social and Behavioral Responsible Conduct of Research Course
Collaborative Institutional Training Initiative, 2011-2017.

CITI Health Information Privacy and Security (HIPS) for Students and Instructors
Collaborative Institutional Training Initiative, 2011-2017.

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