

William Kyle Hamilton

CONTACT INFORMATION

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EDUCATION

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 8 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.
- Performed 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 cameronhclab.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.

University of California, Merced - School of Natural Science

Student Lab Assistant II

August 2010 to July 2012

- Assisted in setting up classroom labs for Chemistry 2, 8, 10, 100 and 101
- Created chemical solutions for chemistry labs and demonstrations
- Cleaned glassware, sterilized instruments, and calibrated equipment

BSK Analytical Laboratories

Microbiology Laboratory Technician

January 2008 to February 2010

- Set up samples for testing of Coliform and E.Coli in drinking water, and waste water
- Notified clients and municipalities of positive results for Coliform in drinking water.
- Prepared and read heterotrophic plate counts of drinking water and waste water.
- Assisted in the transition from StarLIMS over to Element Data Systems, including installing client copies of Element, training employees, and designing worksheets
- Cross trained to run MBAS, turbidity and general physical.

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.** (Submitted). Positive Discipline Parenting Scale: Reliability and Validity of a Measure. *Journal of Individual Psychology*.

SOFTWARE

- [1] **Hamilton, W.** and Mizumoto, A. (2014) *IRTShiny*: R package for running item response theory analysis through an interactive web interface with Shiny. [CRAN](#) [GitHub](#)
- [2] **Hamilton, W.** and Mizumoto, A. (2014) *MAVIS*: R package for running a meta-analysis through an interactive web interface with Shiny. [CRAN](#) [GitHub](#)
- [3] **Hamilton, W.** and Mizumoto, A. (2014) *PACA*: R package for running principal component analysis through 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

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

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
MEMBERSHIPS

[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

Data and Numerical Analysis:

- R, SPSS, Open Refine,

R skill set:

- Crowdsourcing: [MTurkR](#)
- High-Performance and Parallel Computing: multicore, snow
- Meta-Analysis: [meta](#), [metafor](#)
- Shiny Applications: [shiny](#), [shinyAce](#)
- Social Networking: [twitterR](#)

Survey Data Collection:

- Qualtrics, Lime Survey, Survey Monkey

Information/Internet Technology:

- Cloud Services: Amazon Web Services, Microsoft Azure
- Content Management Systems: Drupal, Wordpress

Spectroscopy Software

- Ocean Optics SpectraSuite

Desktop Editing and Productivity Software:

- \LaTeX , Microsoft Office, OpenOffice.org, Google Docs
- Adobe Photoshop, GIMP

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.