

# Emily Blumenthal, Ph.D.

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## RELEVANT EMPLOYMENT

**The George Washington University**, Washington, DC

*Data Services Librarian, Libraries and Academic Innovation*

08/2023 - Present

- Advise university leaders and departments on compliance with research data collection and sharing mandates, including FAIR principles.
- Consult researchers, faculty, and students on data management and sharing plans, deidentifying human subjects data, selecting repositories, and responsible data sharing.
- Develop and present workshops on the research data lifecycle, data management, statistical methods, and coding, collaborating with various university departments to enhance workshop reach.
- Accepted to the highly selective Data Curation Network STAIRS Summit on data sharing readiness. Coordinated feedback from multiple departments and will represent GWU at the summit, preparing documentation on institutional readiness.

**Northern Virginia Community College**, Sterling, VA

*Adjunct Professor, Psychology, Language, Arts, and Social Sciences Division*

08/2022 – 12/2022

Developed interactive and applied courses to engage students in psychology.

- Designed interactive course websites using Canvas LMS to increase online engagement.
- Incorporated study skills components into curricula to enhance student learning and transfer preparedness.
- Courses: Principles of Applied Psychology (PSY100), Cross-Cultural Psychology (PSY219).

**University of Illinois Chicago**, Chicago, IL

*Visiting Lecturer, Department of Psychology*

08/2019 – 12/2021

- Developed curricula, taught interactive classes, graded assignments, mentored students, and supervised teaching assistants.
- Successfully taught in-person lectures, labs, and online courses; received average student evaluations of 4.8 out of 5.0.
- Created online content using Panopto, Canva, and Storyline to facilitate a smooth transition to online learning.
- Courses: Introduction to Research Methods (PSCH242), Introduction to Statistics (PSCH343), Advanced Laboratory in Developmental Research (PSCH321), Cognition and Memory (PSCH352). Enrollments: 18-150 students.

**California State University San Marcos, San Marcos, CA**

*Lecturer, Psychology Department*

01/2015 – 06/2018

- Developed curricula, evaluation metrics, and lecture materials for undergraduate psychology classes.
- Courses: Developmental Psychology (PSYC330), Developmental Psychopathology (PSYC328), Research Methods and Statistics (PSYC220, PSYC230, PSYC395), Introductory Psychology (PSYC100), Cognitive Psychology (PSYC326). Enrollments: 25-60 students.
- Mentored students on independent research projects and graduate school applications.

**Palomar College, San Marcos, CA**

*Lecturer in Psychology, Department of Behavioral Sciences*

08/2017 – 06/2018

- Taught Developmental Psychology (PSYC110) through lectures, discussions, and interactive examples.
- Integrated lecture, computer work, and hands-on experiments to teach statistics for the behavioral sciences (PSYC/SOC205).

**University of California San Diego, La Jolla, CA**

*Lecturer, Departments of Psychology, Cognitive Science, and Human Developmental Sciences Program*

01/2014 – 03/2017

- Developed curricula, evaluation metrics, and lecture materials for undergraduate psychology classes.
- Facilitated learning using lectures, online resources, and peer-based teaching.
- Courses: Developmental Cognitive Neuroscience (COGS110/HDP121, HDP110), Lifespan Development (PSYC7), Research Methods and Statistics (HDP181, PSYC60), Psychology of Parenting (PSYC190), Developmental Psychopathology (PSYC168). Enrollments: 30-400 students.

**University of California San Diego, La Jolla, CA**

*Postdoctoral Scholar, Department of Psychology – Infant Vision Lab (currently named the Human Experience and Awareness Laboratory)*

07/2011 - 12/2013

- Designed and conducted experimental studies on perceptual and cognitive performance; managed data collection, coding, and analysis using R, MATLAB, and SAS.
- Presented research findings through academic papers, talks, and informal presentations.
- Trained and supervised research teams (4-10 members) in experimental design, programming, data acquisition, and analysis.
- Coordinated with the Lab Manager and students on participant outreach via website, direct mail, pediatric offices, and university advertising.
- Provided quantitative and qualitative statistical consulting to faculty and graduate students.

**Center for Social Science Computation & Research, University of Washington, Seattle, WA**

*Consultant and Instructor*

08/2009 - 05/2011

- Provided training on methodology and data analysis for social science research, explaining complex statistical analyses to non-technical audiences.
- Developed online resources for data processing using R and MATLAB for diverse audiences.
- Taught seminars on data collection and statistical analysis software.

## EDUCATION

UNIVERSITY OF WASHINGTON, Seattle, WA

**Ph.D. in Psychology, focus in Developmental Cognitive Neuroscience & Quantitative Methods**, 2011  
Dissertation: An Electrophysiological Study of the Perception and Representation of Michottean Launching Events

BROWN UNIVERSITY, Providence, RI

**B.A. Cognitive Science**, with honors, 2005  
Honors Thesis: Children's Understanding of Simple and Conditional Probabilities

## Honors & Awards

Full scholarship to the **Summer Institute in Cognitive Neuroscience**, funded by the National Institute of Mental Health, University of California Santa Barbara (2011)

**Bolles Fellowship**, University of Washington (2010)

**Society for Research in Child Development Travel Award** (2009)

**The Graduate School Fund for Excellence and Innovation Travel Grant**, University of Washington (2005, 2009)

**Award for Excellence in Research in Cognitive Science**, donated by the Class of 1873, Department of Cognitive and Linguistic Sciences, Brown University (2005)

**Solsbery Fellowship** for independent research, The Center for the Study of Human Development, Brown University (2004)

## PUBLICATIONS

**Blumenthal, E. J.**, Bosworth, R. G., & Dobkins, K. R. (2013). Fast development of global motion processing in human infants. *Journal of Vision*, *13*, 1-13.

Sommerville, J. A., **Blumenthal, E. J.**, Venema, K. & Braun, K. (2010). *The body in action: The impact of self-produced action on infants' action perception and understanding*. In V. Slaughter & C. Brownwell (Eds). *Early Development of Body Representations*. Cambridge University Press.

Sobel, D. M., Sommerville, J. A., Travers, Lea V., **Blumenthal, E. J.**, & Stoddard, E. (2009). The role of probability and intentionality in preschoolers' causal generalizations. *Journal of Cognition and Development*, *10*, 262-284.

Sobel, D. M., Yoachim, C. M., Gopnik, A., Meltzoff, A. N., & **Blumenthal, E. J.** (2007). The blicket within: Preschoolers' inferences about insides and causes. *Journal of Cognition and Development*, *8*, 159-182.

## SELECTED CONFERENCE PRESENTATIONS

Smith, D., **Blumenthal, E. J.**, & Peerman, M. (2024, October). Inclusive computational pedagogy. Poster to be presented at the 2024 Southeast Data Librarian Symposium, online.

Richter, G., Bosworth, R. G., & **Blumenthal, E. J.** (2018, May). Do infants' cognitive abilities predict performance on a visual search task? Poster presented at the 25th Annual Psychology Department Research Fair, California State University San Marcos, San Marcos, CA.

Dobkins, K. R., **Blumenthal, E. J.**, McDonald, S. M., McIntire, M. J., & Bergen, H. (2014, May). Effects of external noise on contrast sensitivity for intact and scrambled faces in infants. Poster presented at the Vision Sciences Society Meeting in St. Pete Beach, FL.

**Blumenthal, E. J.**, Garcia, J. O., Williams, D. R., Carver, L. J., Serences, J. T., & Dobkins, K. R. (2013, November). Neurological measures of sensory habituation in typically developing adults and infants using an event-related potential technique. Poster presented at the Society for Neuroscience conference, San Diego, CA. *Also presented at the 17<sup>th</sup> EEGLAB Workshop (2013, November) in San Diego, CA.*

**Blumenthal, E. J.**, Bosworth, R. G., & Dobkins, K. R. (2012, May). Genetic and environmental contributions to chromatic and luminance sensitivity in infant twins. Poster presented at the Vision Sciences Society Meeting. Naples, FL.

**Blumenthal, E. J.**, & Little, L. M. (2009, July). Replacing dogma with critical thinking in an introductory statistics course. Invited poster at the International Conference on the Teaching of Psychology, Vancouver, Canada. *Also at the University of Washington's 5<sup>th</sup> Annual Teaching and Learning Symposium (2009, April) in Seattle, WA.*

## SELECTED WORKSHOPS

*\*offered for credit as part of the Responsible Conduct of Research course series*

An Overview of Survey Data Weighting for Public Health (December 2023)

Crafting Effective Data Management and Sharing Plans with DMP Tool, ORCID, and SciENcv (co-taught with Deborah Bezanson, Dr. Ann James, Research and User Services; September 2023, October 2023, March 2024, September 2024\*)

Deidentifying Human Subjects' Data for Sharing (organized a panel presentation with representatives from the Office of Human Research, Privacy Office, CREATE Digital Studio; February 2024, May 2024 (Academy of Education Scholars continuing education series), October 2024\*)

How to Fold a Spreadsheet: Data Analysis and Data Visualization in Google Sheets and Excel (co-taught with Dolsy Smith, Scholarly Technology Group; February 2024, June 2024, October 2024)

Inclusive Computational Pedagogy (part of the DEI Learning Table Series; panel discussion with Dolsy Smith and Marcus Peerman, Scholarly Technology Group, Medhasweta Sen, Academic Commons; February 2024)

Protecting and Sharing Data Across the Research Lifecycle (co-taught with Deborah Bezanson, Dr. Ann James, Research and User Services, Chris Kozemchak, Research Technology Services; September 2024\*)

Python Camp (an introductory bootcamp for GWU community members without programming experience; organized by Dolsy Smith, Scholarly Technology Group; August 2023, December 2023)

Survey Research Tools: An Overview of Qualtrics and REDCap (co-taught with Chris Kozemchak, Research Technology Services; October 2024)

Thinking About Data Visualization (co-taught with Dan Kerchner, Scholarly Technology Group; October 2023, November 2024)

### Upcoming:

Text as Data: Getting Started with Computational Data Analysis (with Dolsy Smith, Scholarly Technology Group, and Josh McDonald, Research and User Services; October, 2024)

TDM Studio Study Hall (with member of Research and User Services; September 2024, October 2024)

## **SELECTED PRESS**

Preemie color vision. American Association for the Advancement of Science, Science Update Podcast (September 19, 2013). Podcast retrieved from <http://www.scienceupdate.com/2013/09/vision-2/>

Featured in Brearley Pioneers: We know where the women in science are.

<http://www.brearley.org/alumnae-homepage/women-in-science/>

## **SKILLS**

*Programming Languages:* C, HTML, MATLAB, Python, R.

*Software for Statistical Analysis & Stimulus Presentation:* MATLAB/Psychtoolbox, NVivo, R, SAS/JMP, SPSS, Stata, Tableau.

*Software for Data Acquisition & Management:* E Prime, Microsoft Access, Net Station, NLM Scrubber, Tobii Studio.

*Other Software & Tools:* Adobe Creative Suite, Blackboard, Canva, Canvas, Educreations, Google Suite, LibApps, Microsoft Office Suite, Mendeley, Panopto, Poll Everywhere, Skype, Storyline, Zoom, Zotero.

*Methodologies:* Bibliometrics, data management, quantitative and qualitative analysis, survey research methods, electroencephalography (EEG) and event-related potentials (ERP), eyetracking, interview-based assessments, behavioral testing with adults, children and infants (e.g. psychophysical methods to study perception, implicit association tests, behavioral habituation and violation of expectation).

## **SELECTED PROFESSIONAL AFFILIATIONS AND SERVICE**

EDUCAUSE peer reviewer

ICPSR's International Love Data Week 2025, Communications volunteer

Academic Data Science Alliance: Data + Society Challenge, mentor

Research Data Access and Preservation, member