

EMMA ROELLKE



EDUCATION

Vassar College, Poughkeepsie, NY

- Bachelor of Arts in Psychological Science and Political Science, May 2016
- Graduated Phi Beta Kappa with departmental honors in Psychological Science and with general honors
- Cumulative GPA: 3.90; Math/Science GPA: 3.89

RESEARCH EXPERIENCE

Neurobehavioral Lab Manager, Department of Psychological Science – Vassar College, January 2014 – Present

- Oversee Dr. Abigail Baird's lab operations including research, data analysis, methodology construction, manuscript preparation, research assistant training, inter-institutional communication, and general organization
- Assist with preparation for introductory psychology, clinical psychology, and neuropsychology courses including grading papers and exams, managing online assignment submissions, and providing written feedback on student work
- Create comprehensive, interactive lab website using HTML coding (www.teenspecies.com)
- Oversee content/copy revisions on full-length popular press manuscript on adolescent development
- Main academic projects include: comparative fMRI study on prefrontal versus insular activation during decision making tasks; investigation of contextual components of mass school shootings; academic press chapter on the neurocognitive components of female adolescent moral reasoning; fMRI study on adolescents' neural responses to peer versus adult faces

Academic Intern, Department of Psychological Science — Vassar College, August 2015 — December 2015

- Selected by Psychological Science faculty to serve as the academic intern for a lab-based course in social psychology
- Collaborated with Dr. Jannay Morrow to compile literature reviews and develop research methodologies
- Held office hours to assist students with test preparation and written assignments
- Managed lab schedules, trained research assistants, and oversaw data collection/analysis

Immunology Research Fellow, Summer Undergraduate Research Program – Mount Sinai Hospital, June 2015 — August 2015

- One of 20 undergraduates accepted to Icahn School of Medicine's Summer Undergraduate Research Program for students pursuing careers in biomedical research and clinical medicine
- Worked under Dr. Charlotte Cunningham-Rundles conducting laboratory experiments including ELISA, FACS, and PCR to determine the etiological underpinnings of common variable immunodeficiency (CVID)
- Main project included: Study of BAFF activation and B cell dysfunction in patients with known antibody deficiency

CLINICAL EXPERIENCE

Immunodeficiency Clinic — Mount Sinai Hospital, June 2015 — August 2015

- Shadowed physicians and fellows in the hospital's immunodeficiency clinic, serving immunocompromised infants, children, and adults with syndromes such as CVID, IgAD, NEMO deficiency syndrome, and XLA

Interventional and Diagnostic Radiology — DRA Imaging, February 2015 – June 2015

- Observed physicians and physician assistants reading images and performing procedures including thoracentesis, paracentesis, phlebectomy, mammogram, ultrasound-guided breast biopsy, CT-guided liver biopsy, and endovascular coiling

HONORS AND AWARDS

Phi Beta Kappa Member, May 2016

Inducted into national academic honor society for demonstration of academic achievement and intellectual adventurousness

Edith Glickman Neisser Prize Recipient, May 2016

Awarded senior academic prize at Vassar College for commitment to study of child development

Sigma Xi Prize Recipient, May 2016

Inducted into national honor society in research for distinguished record of scientific inquiry at Vassar College

Campus Initiatives Honoree, May 2016

Recognized by Vassar College administration for volunteer contributions to campus life

Psi Chi Member, May 2015

Selected by Vassar College faculty to be inducted into the international honor society in psychology

Truman Scholarship Nominee, December 2014

Nominated as a finalist to progress to national scholarship competition for commitment to careers in public service

Tananbaum Fellow, December 2014

Received selective fellowship for Vassar College juniors demonstrating commitment to professional growth and success

Undergraduate Research Summer Institute Fellow, May 2014

Awarded fellowship for summer study of neurobehavioral science at Vassar College

SKILLS

Computer: Microsoft Office (Word, Excel, PowerPoint), HTML coding, SPSS, Adobe Photoshop, WordPress, social media
Research: Participant recruitment, data collection, coding, analysis, scientific manuscript preparation
Wet Lab: PCR, ELISA, FACS, PBMC isolation, cell culture, immunofluorescent staining/imaging, spectrophotometry
Languages: Spanish (basic working proficiency)

ADDITIONAL EXPERIENCE, LEADERSHIP AND ACTIVITIES

Campaign Caller, Hillary for America, September 2016 – November 2016

Copy Editor, Miscellany News – Vassar College, September 2012 – May 2015

Peer Tutor and Workshop Coordinator, R.E.A.L. Skills Network, September 2013 – May 2014

Assistant Stage Manager, Student Theater – Vassar College, January 2014 – March 2014

Freelance Writer and Editorial Department Intern, Hudson Valley Magazine, Summers 2012 – 2013

Camp Counselor, Poughkeepsie Day School Summer Camp, Summers 2008 – 2012

Campaign Intern, Dan French for Dutchess County Executive, June 2011 – November 2011

POSTER AND PAPER PRESENTATIONS

Raiss, M., King, S., **Roellke, E.**, Deane, C., Coley, K., Mittman, A., & Zeifman, D. (2016). Infant temperament and abuse: Assessing hormonal and behavioral responses to infant distress signals in male undergraduates. Senior Empirical Thesis, Departments of Psychological Science and Neuroscience and Behavior, Vassar College: May 2016, Poughkeepsie, New York.

Maglione, P. J., Cols, M., **Roellke, E.**, Radigan, L., & Cunningham-Rundles, C. (2016). Role of B cell activating factor in CVID lung disease. *Journal of Allergy and Clinical Immunology: Programs and Abstracts of Papers to be Presented During Scientific Sessions, 2016 AAAAI Annual Meeting, 2*, AB180.

Roellke, E., Maglione, P. J., Radigan, L., Cunningham-Rundles, L. (2015). BAFF elevation and B cell dysfunction in patients with known CVID. Summer Undergraduate Research Program (SURP), Icahn School of Medicine at Mount Sinai: August 2015, New York, New York.

Roellke, E., Wheeler, C., & Baird, A. A. (2015). Mass school shootings: Potential risk of school size and student-teacher ratio. Association for Psychological Science Annual Conference: May 2015, New York, New York.

Wheeler, C., **Roellke, E.**, & Baird, A. A. (2015). Neural correlates of peer influence in adolescence. Association for Psychological Science Annual Conference: May 2015, New York, New York.

Roellke, E., Port, M., English, B., Lind, H., Reed, B., & Zeifman, D. (2014). Second to fourth digit ratio and its associations with biological sex, sexual orientation, and behavioral and attitudinal traits. Department of Psychological Science, Vassar College: May 2014, Poughkeepsie, New York.

PUBLICATIONS

Baird, A. A., **Roellke, E. V.**, & Zeifman, D. M. (*accepted for publication*). Alone and adrift: The association between mass school shootings, school size, and student support. *The Social Science Journal*.

Baird, A. A. & **Roellke, E. V.** (2015). Girl Uninterrupted: The neural basis of moral development among adolescent females, in Decety, J. & Wheatley, T. (Eds.) *The Moral Brain: A Multidisciplinary Perspective*. Cambridge, MA: MIT Press.

Zeifman, D.M., **Roellke, E.**, Lytel-Sternberg, J., Raiss, M., King, S., Deane, C., Coley, K., & Mittman, A. (*manuscript in preparation*). Infant temperament and abuse: Assessing hormonal and behavioral responses to infant distress signals in male undergraduates.

For publications in Hudson Valley Magazine, please visit hvmag.com and search “Roellke”