

Guillaume J. Riesen

WORK ADDRESS:

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EDUCATION

Bachelor of Science, Magna cum laude with Honors May 2012
Brown University, Providence, RI
Concentration: Cognitive Neuroscience

HONORS AND AWARDS

NSF Graduate Research Fellow 2015-present
Stanford Teaching and Mentoring Academy Innovation grant for educational video production 2016
Second Place, Society for Neuroscience Brain Awareness Video Contest 2015, 2019
Khan Academy Talent Search Winner 2015
Fulbright Scholarship and Swiss Government Scholarship 2012
Award for Excellence in Honors Research: Best Cognitive Neuroscience Thesis 2012
Gold Award – Scholastic Art and Writing Competition, photography portfolio 2008

TEACHING & OUTREACH

Educational Video Producer

- Personal YouTube channel with 3M+ views: [‘Guillaume Riesen’](#) 2011-present
- Creating educational videos with math and science content for the general public

Online lecturer for ‘Introduction to Symbolic Systems’, Stanford University 2019

- Designed, recorded and produced a 40-minute video lecture on ‘The Brain’ for first year undergraduates in the Symbolic Systems program.

Intern, Stanford @ The Tech program 2018-2019

- Running 15-minute activities for visitors, from elementary schoolers to adults (2 hours/week)
- Writing educational articles in response to Ask a Geneticist submissions on the Tech’s website
- Designing an original interactive game to teach visitors about transcription and protein folding

Fellow, Stanford’s Preparing Future Professors program 2018-2019

- Shadowing a biology professor at SJSU, including delivering a full lecture on toxicology
- Attending a weekly practicum where teaching methods and careers were discussed

STAR – Science Teaching Through Art 2018

- Creating an infographic showcasing a graduate research project, presenting it to local college students

Co-Lecturer

- Stanford University graduate course – Techniques in Neuroscience 2017-present
- Designing and delivering three hour-long lectures on the brain
- Planning and facilitating weekly journal-style discussions on key neuroscience papers

Teaching Assistant 2016-present

- Stanford University undergraduate course - Introduction to Cognitive Neuroscience
- Grading homework and exams, implementing weekly sections
- Planning and organizing two hour-long interactive lessons each year, to be delivered to 200+ students

‘Brain Day’ Science Outreach Presenter 2015-present

- Local middle schools near Stanford University, Stanford CA
- Designing and carrying out short hands-on presentations involving brain specimens

Stanford SPLASH Course instructor 2016, 2018

- Designing and teaching an hour-long lesson on visual illusions for high school students

Co-founder of Coursewire educational science videos initiative 2011-2012

- Recruiting development team, overseeing website production
- Producing audio content for videos funded by the Brown Creative Mind Institute and Science Center
- Helping to develop a new Brown/RISD course: ‘Communicating Science Through Visual Media’

After-School Program Instructor 2008-2009

- Brown University, Providence Science Outreach program
- Planning and teaching weekly science lessons at William D’Abate Elementary School

RESEARCH

Graduate Student, Stanford Neurosciences Program 2015-present

- PIs: Dr. Justin Gardner, Dr. Anthony Norcia

Research Assistant, Computational Vision Laboratory 2013-2015

- Northeastern University, Boston MA
- PI: Dr. Ennio Mingolla
- Independent Research, models of numerosity estimation, motion detection and color.

Fulbright Scholar, Laboratory of Cognitive Neuroscience 2012-2013

- École Polytechnique Fédérale de Lausanne, Lausanne CH
- Host: Dr. Wulfram Gerstner
- Independent Research, Developing biologically plausible model of orientation map development in V1.

Research Assistant, Serre Lab 2011-2012

- Brown University, Providence RI
- Supervisor: Dr. Thomas Serre
- Creating stereo image database and stereo sensitivity in HMAX image classification algorithm.

PUBLICATIONS

Riesen, G., Livitz, G., Eskew, R., & Mingolla, E. (2015). Effect of achromatic afterimage on spatial chromatic induction. *Journal of vision*, 15(12), 401-401.

Riesen, G., Norcia, A. M., & Gardner, J. L. (2019). Humans perceive binocular rivalry and fusion in a tristable dynamic state. *Journal of Neuroscience*, 0713-19.

Riesen, G., Ruda, H., & Mingolla, E. (2014). Rapidly estimating numerosity independent of size-related distance or occlusion. *Journal of Vision*, 14(10), 879-879.

Ruda, H., **Riesen, G.**, & Hock, H. (2016). Reverse-Phi Experiments Support the Counterchange Model of Motion Detection. *Journal of Vision*, 16(12), 668-668.

Ruda, H., Livitz, G., **Riesen, G.**, & Mingolla, E. (2015). Computational modeling of depth ordering in occlusion through accretion or deletion of texture. *Journal of vision*, 15(9), 20-20.

SERVICE AND LEADERSHIP

- Genetics presenter, Cheyenne River Research Symposium**, Eagle Butte, South Dakota 2019
- Lead regional high schoolers through DNA extraction and simulated DNA electrophoresis
- Peer Learning Consultant** 2018-present
- Stanford Center for Teaching and Learning, Stanford CA
- Planning, budgeting, and delivery of two academic skills workshops per quarter
- Prison Renaissance Project Artist**, Stanford Prison Renaissance Project, Stanford CA 2017-present
- Collaborating with an incarcerated artist to produce a piece of art
- Community Representative**, Stanford Neurosciences PhD program, Stanford CA 2016-2017
- Fundraising, budget management, social events coordination
- Science Penpals Program**, Stanford University, Stanford CA 2015-2017
- Exchanging quarterly letters with a middle school student in New Mexico
- Co-creator, leader of Cog Neuro Undergraduate Group**, Brown University, Providence RI 2011-2012
- Managing budget, organizing events and advertising to recruit members
- President of Brown University Out of Hand Juggling Club** 2011-2012
- Managing budget, running practice sessions, instructing new members

REFERENCES

Justin Gardner
Assistant Professor, Psychology, Stanford University
Current supervisor, Graduate Research
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Anthony Norcia
Professor, Psychology, Stanford University
Current supervisor, Graduate Research
amnorcia@stanford.edu

Ennio Mingolla
Professor, Psychology, Northeastern University
Previous supervisor, Research Assistantship
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