Stephanie M. Reeves

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**EDUCATION**

**University of California Berkeley,** Berkeley, CA Doctor of Philosophy, expected May 2025

*Program:* Vision Science

*Laboratory:* Jorge Otero-Millan

*Relevant Courses:*Visual Neuroscience • Optical and Neural Limits of Vision • Seeing in Time and Space

**Connecticut College,** New London, CT Bachelor of Arts, *cum laude,* May 2016

*Triple Major:* Behavioral Neuroscience, Slavic Studies, Dance GPA 3.73

*Certificate:* Toor Cummings Center for International Studies and the Liberal Arts (CISLA)

*Relevant Courses:*Biopsychology • Neurophysiology • Psychopharmacology • Research Methods • Statistics

**St. Petersburg State University,** St. Petersburg, Russia Bard-Smolny Study Abroad August - December 2014

*Coursework:* Soviet Architecture • Soviet Film • Russian Grammar • Writing • Phonetics and Conversation

*Teaching:* English Language Club; taught approx. 40 Russian adults through conversation club meetings

**RESEARCH EXPERIENCE**

**University of California Berkeley,** Berkeley, CA August 2020 - Present

*Graduate Student* • Completed rotations under Michael Silver, Emily Cooper, & Jorge Otero-Millan on motion

perception and eye movements in virtual reality (respectively).

• Joined the Otero-Millan lab, currently studying the oculomotor and binocular consequences of head

tilt

**Schepens Eye Research Institute, Harvard Medical School,** Boston, MA June 2017 - August 2020

*Research Assistant* • Implemented experimental protocols by recruiting and running participants for current studies.

• Prepared and wrote complete IRB project submissions and annual reviews.  
 • Designed pilot study regarding a treatment for hemispatial neglect using trained eye movements.  
 • Interviewed, hired, on-boarded, tracked, and managed a team of 10 people to complete data

processing on a retrospective study regarding the effects of RP on quality of life.

• Processed and analyzed data (audio and eye tracking files) for studies using MATLab/Stata.

• Conducted statistical analyses and wrote manuscripts (resulting in first-author papers).

**Institute of Higher Nervous Activity and Neurophysiology RAS,** Moscow, Russia May - August 2015

*Research Intern* • Performed techniques including Western Blot, PCR, qPCR, rtPCR, Reverse Transcription, Electrophoreses, DNA Sequencing, DNA and RNA isolation and cloning, etc.

• Collaborated on projects involving protein kinase PKMzeta and conducted pilot experiments.

• Translated and edited professional articles and communicated in Russian with colleagues.

**Glial Pathology Lab** **at the UConn Health Center**, Farmington, CT May - August 2014

*Research Intern* • Analyzed astrocytic cell regrowth on different extracellular matrices via immunofluorescence microscopes after manual cell injury (scratch).

• Researched demyelination in glial cells in Parkinson’s disease.

• Performed lab techniques including Western Blots, Cell Culturing, Immunohistochemistry, Elisa.

**Neuroscience Department**, Connecticut College, CT Spring 2014

*Laboratory Assistant* • Performed rat brain perfusions and analyzed subsequent hippocampal slices.

• Conduced additional experiments using Elevated Plus Maze and Novel Object Recognition.

# TEACHING

**University of California,** Berkeley, CA September 2020 - *present*

*Graduate Student* • Served as junior and then senior GSI for the course VS 205 “Visual Sensitivity and Perception”

*Instructor (GSI)* • Designed and led all lab sections for the course covering psychophysics, light adaptation, dark adaptation, weber’s law, and color vision, among other topics

• Completed one-on-one tutoring sessions when needed and completed the grading for the course

**Fulbright Program 2016-2017,** Kazan, Russia September 2016 - June 2017

*ETA Scholar* • Selected as English Teaching Grantee at Kazan National Research Technological University.

• Taught <200 students and founded two English Clubs (for students and teachers, respectively).

• Conducted research on the effects of motivation on second language acquisition with colleagues.

**St. Petersburg State University**, St. Petersburg, Russia Fall 2014

*English Tutor* • Conducted tutoring sessions in groups of 6-8 Russian adults.

• Explained sentence construction, corrected grammar, and honed the expression of main ideas.

• Conversation topics: house vs. home, Russian/American cultural differences, giving directions.

**Wilbraham & Monson Academy,** Wilbraham, MA Fall 2010 – Spring 2012

*Writing Center Tutor* • One-on-one tutoring aimed to develop writing techniques for international students (ESL students).

• Edited academic essays and helped students to write efficiently and effectively.

# PUBLICATIONS

**Reeves, S.,** Williams, V., Blacker, D., Woods, R. (in prep) Further evaluation of narrative description as a measure of cognitive function in Alzheimer’s Disease.

Costela, F., **Reeves, S.,** Elze, T., Weigel-DiFranco, C., Woods, R. (in prep) Monocular visual field patterns in retinitis pigmentosa found using unsupervised machine learning.

Costela, F., **Reeves, S.,** Woods, R. (2021) The effect of zoom magnification and large display on video comprehension in individuals with central vision loss. *Translational Vision Science & Technology.*

Costela, F., **Reeves, S.,** Woods, R. (2021)An implementation of Bubble Magnification did not improve the video comprehension of individuals with central vision loss. *Ophthalmic and Physiological Optics.*

**Reeves, S.,** Williams, V., Costela, F., Palumbo, R., Umoren, O., Christopher, M., Blacker, D., Woods, R. (2020) Narrative video scene description task discriminates between levels of cognitive impairment in Alzheimer’s Disease. *Neuropsychology*, 34(4): 437-446.

Costela, F., **Reeves, S.,** Woods, R. (2020) Orientation of preferred retinal locus (PRL) is maintained following changes in simulated scotoma size. *Journal of Vision,* 20(7): 25.

Costela, F., Saunders, D., Rose, D., Katjezovic, S., **Reeves, S.,** Woods, R. (2019) People with central vision loss have difficulty watching videos. *Investigative Ophthalmology & Visual Science,* 60(1): 358-364.

**Reeves, S.,** Pantaleeva, M. (2017). Role of Motivation in Learning a Second Language for Intercultural Competence Development. *The Journal of European Proceedings of Social & Behavioural Sciences EpSBS, 3*, 698-704.

# CONFERENCES

Talks

**Reeves, S.,** Elze, T., Costela, F., Sandberg, M., Weigel-DiFranco, C., Woods, R. (2020) Goldmann visual field patterns in retinitis pigmentosa from unsupervised machine learning. *Association for Research in Vision and Ophthalmology.* Baltimore, Maryland.

Woods, R. **Reeves, S.,** Elze, T., Costela, F., Sandberg, M., Weigel-DiFranco, C., Woods, R. (2020) Relationship between vision-related activity limitations and binocular visual field patterns in retinitis pigmentosa. *Association for Research in Vision and Ophthalmology.* Baltimore, Maryland.

**Reeves, S.,** Devlin, A. (2018) Effects of Background Music and Noise on Cognitive Performance in Musicians and Non-musicians.*13th International Symposium of Cognition, Logic, and Communication***.** Riga, Latvia.

**Reeves, S.,** Pantaleeva, M. (2017) Avenues to Global Citizenship: Enacting Cultural Competence in the Russian-Speaking Classroom. *III International Forum on Teacher Education.* Kazan, Russia.

Posters

**Reeves, S.,** Williams, V., Blacker, D., Woods, R. (2019) Measuring cognitive impairment using a test of visual scene comprehension. *Asia Pacific Conference on Vision.* Osaka, Japan.

Costela, F., **Reeves, S.,** Kwon, M., Woods, R. (2019) Orientation of preferred retinal locus is maintained following changes in simulated scotoma size. *Association for Research in Vision and Ophthalmology.* Vancouver, Canada.

**Reeves, S.,** Schroeder, J. (2016) PKMzeta and the Russian Narrative: How Memory is Changed, Elongated, and Erased. *Connecticut College Conference for the Center for International Study in the Liberal Arts.* New London, Connecticut.

# PUBLISHED ABSTRACTS

**Reeves, S.,** Elze, T., Costela, F., Sandberg, M., Weigel-DiFranco, C., Woods, R. (2020) Goldmann visual field patterns in retinitis pigmentosa from unsupervised machine learning. *Investigative Ophthalmology & Visual Science.*

Woods, R., **Reeves, S.,** Costela, F., Sandberg, M., Weigel-DiFranco, C., Elze, T. (2020) Relationship between vision-related activity limitations and binocular visual field patterns in retinitis pigmentosa. *Investigative Ophthalmology & Visual Science.*

Costela, F., **Reeves, S. M**., Woods, R. L. (2019) Orientation of preferred retinal locus is maintaind following changes in simulated scotoma size. *Investigative Ophthalmology & Visual Science.*

# HONORS AND AWARDS

**Association for Research in Vision and Ophthalmology Travel Grant** May 2020

*Travel Grant Recipient*

Was awarded a nominal sum to travel to the annual conference, ARVO, in the spring of 2020.

**Center for Vision Research VISTA Science Summer School** June 2018

*York University, Canada*

Applied for and was awarded a fully funded scholarship to study human visual perception, computer vision, visual neuroscience, immersive environments, and visual disorders. The weeklong summer school program involved morning lectures and afternoon lab work.

**Fulbright Program** 2016 - 2017

*International Fellowship*

Highly competitive merit-based grant for international exchange, mutual understanding, research, and teaching funded by the U.S. State Department in collaboration with the International Institute of Education.

**Nu Rho Psi Member** May 2016

*National Honor Society*

Merit-Based Award for scholastic achievement in the Neurosciences.

**Toor Cummings Certificate Center for International Studies in the Liberal Arts (CISLA)** 2014 - 2016

*Certificate Center Program, Connecticut College*

Certificate marks the successful completion of CISLA coursework, 8-12 week international internship, Senior Integrative Project and Independent Study, and foreign language oral proficiency by ACTFL (American Council on the Teaching of Foreign Language).

**VOLUNTEER**

**Bay Area Scientists In Schools (BASIS)** August 2020 - *present*

*Volunteer Scientist*

• Deliver monthly outreach presentations to different elementary schools in the east bay area on topics including the senses, brain, vision, and perception

**Student Invited Speaker Series** August 2020 - *present*

*Co-chair*

• Organize external speakers to come to Berkeley to give talks for students and faculty in the VS program and School of Optometry

**Madera’s Innovation Exposition** March 2021 - *present*

*Volunteer Mentor*

• Provide guidance and act as a mentor for sixth graders by helping them with their projects for the MIE annual science competition

**Northeast Regional Vice President of Nu Rho Psi** September 2018 *- present*

*National Honor Society*

• Nominated and elected to be on the national council for the honor society as a representative of the northeast region.

• Arranged the biennial regional meetings of the Honor Society, reviewed chapter applications, and established committee structures to perform appropriate duties.  
• Awarded one undergraduate per year with a best poster award for the regional conference NEURON.

**Arbitror, LCC** February 2017 – April 2019

*Writer & Podcast Producer*

• Edited and produced bi-weekly episodes of Arbitration, a podcast dedicated to analyzing foreign policy and current events.  
• Published articles on a variety of topics, specifically surrounding diplomacy and Russia.

# SKILLS AND INTERESTS

Languages: Russian — Advanced, Fluent

Spanish, French, Latin, Chinese — Beginner

Computer: Unity • MATlab • Stata • C Sharp • Python • R • Microsoft Suite • Procreate • Kintera   
Adobe InDesign • Adobe Photoshop • Adobe Lightroom • iMovie • GarageBand • Audacity

Lab: Psychophysics • Perception • Eye tracking • Eye movements • Low Vision Tech

Research Interests: Saccades, microsaccades, binocular vision, oculomotor response to head tilt, eye tracking, VR, saccade generation, neuroscience, statistical modeling, data science

# REFERENCES

Available upon request.