

Devashish Singh

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Summary

I am a graduate of the University of Illinois at Urbana-Champaign, currently looking for a research opportunity in the field of Biology and Chemistry. I have five years of research experience which has given me skills in neuroimaging, data analysis (MATLAB, R and Python) and patient interaction. I am currently seeking opportunities in clinical research.

Education

University of Illinois at Urbana-Champaign

Bachelor of Science in Molecular and Cellular Biology
Minor in Chemistry

Graduated: May 2018

GPA: 3.50/4.00

Work Experience

Smith-Kettlewell Eye Research Institute

Research Assistant

San Francisco, CA

February 2019-Current

- Worked in Dr. Stephen Heinen's research lab investigating eye movement response to various stimuli in order to differentiate typical and atypical eye movements
- Worked in Dr. Arvind Chandna's research lab aiding in clinical examination of patients with Strabismus and Amblyopia, management of outreach programs for children with CVI and collection of eye movement data
- Was author on a talks presented at Vision Sciences Society 2021 and Society for Neuroscience 2021

NASA Ames Research Center

Intern

Mountain View, CA

June 2017-August 2018

- Worked in Dr. Jing Li's research lab from June 2017 through August 2017 and June 2018 through August 2018 doing research on effects of humidity on nanomaterials
- Tested materials deposited on the chip placed inside of a cell-phone based sensor or on a breadboard attached to a multimeter
- Presented data at NASA Ames Intern Symposium

Mobility and Fall Prevention Laboratory

Undergraduate Researcher

Urbana, IL

January 2017-May 2018

- Lab is run by Dr. Manuel Hernandez Assistant Professor of Kinesiology at the University of Illinois at Urbana-Champaign, with the purpose of understanding the changes in physical and cognitive ability in older adults both with and without cognitive impairment such as Multiple Sclerosis or Parkinson's disease
- Worked directly with Dr. Hernandez to create a processing pipeline using programs in R, Matlab, and Python in order to create graphs of data obtained from experiments and aided in collection of data from elderly participants
- Presented data at the Undergraduate Research Symposium

School of Chemical Sciences at University of Illinois at Urbana-Champaign

General Chemistry Lab Instructor

Urbana, IL

August 2017-December 2017

- Instructor for four different, two-hour long laboratory sections of 30 students in the chemistry course CHEM 103
- Taught students how to do Chemistry experiments and ensured their safety along with the integrity of the lab
- Spent time weekly working to master the same chemistry techniques and assignments that I instructed on

Carle Foundation Hospital

Volunteer

Urbana, IL

September 2016-May 2017

- Worked in the Neuroscience/Intensive Care Wing
- Aided Hospital Staff by cleaning patient rooms, relaying patient needs, answering phone calls and stocking equipment from storage room
- Observed Nurse and Doctors interactions with the patients with permission from hospital staff

Publications

- Chandna, A., Singh D., Heinen S. (2021). Asymmetrical movement of the covered eye during midline saccadic/jump vergence while accommodation remains symmetrical [Conference Presentation]. presented at *Vision Sciences Society 2021*
- Chandna, A., Badler, J., Singh, D., Watamaniuk, S., & Heinen, S. (2021). A covered eye fails to follow an object moving in depth. *Scientific Reports*, 11(1), 1-11.
- Chaparro G., Singh D., Hernandez M. (2018). Effects of aerobic fitness on prefrontal brain activation while dual-task walking in older adults [Conference Abstract]. presented at *fNIRS 2018*, Tokyo, Japan. https://fnirs2018.org/wp-content/uploads/2018/09/fNIRS2018_abstract.pdf
- Singh, D., & Chaparro, G. (2018). The effect of walking demands on accuracy and brain activation levels during the modified Stroop task [Conference Poster]. Session presented at Undergraduate Research Symposium, University of Illinois at Urbana-Champaign, Illinois.

Computer Languages

- Proficient in R, Python
- Mastery of MATLAB