

MOHAMMAD SOHAIB

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SUMMARY

- Interdisciplinary research student with skills and experience in neuroscience, and electrical engineering.
- Always willing to learn new skills and tools to expand my intellectual horizon.
- Deep interests in neurological diseases and computational ability of dendrites.
- Self-motivated, problem-solving and hold a collaborative outlook.

TECHNICAL SKILLS

- **Animal Handling:** Mouse handling, Brain Slicing
- **Viral Injections:** Stereotaxic injections in rodents.
- **Microscopy/Imaging:** Confocal microscopy, Calcium Imaging and analysis
- **In-Vitro Patch-Clamp Technique:** Whole cell recordings, Paired/ Unpaired dendritic focal stimulation, optogenetic stimulations
- **Machine Learning:** Implementing DNN and ML models.
- **Python:** Numpy, Scipy, Matplotlib.

RESEARCH EXPERIENCE

- **Cortical Computation lab, PI: Prof. Jackie Schiller**
Research master's student
Technion, Haifa
March 2020 to June 2022
- **Rapid Eye Movement Sleep Laboratory, PI: Prof. B.N Mallick**
Research Intern
Jawaharlal Nehru University, New Delhi
July 2018 to April 2019

EDUCATION

- **MSc in Medicine**
GPA: 87.9
Technion, Haifa
March 2020 to June 2022
 - Worked on a project to probe plasticity mechanisms in Piriform Cortex.
 - Expertise in Confocal microscopy, patch clamp technique, optogenetics.
 - Courses in neurophysiology, neuroanatomy, biophysics
- **BTech in Electrical Engineering**
GPA: 90
Jamia Millia Islamia, New Delhi
July 2014 to August 2018
 - Learnt signal and systems, circuit analysis, engineering math, control systems among core electrical courses.
 - Developed an Online Air Pollution Monitoring system as the final year project.
 - Completed a summer training at Power Grid, New Delhi and learned the various aspects of Power system design.
 - Led a team of university students to conduct a Tedx event.

FELLOWSHIPS

- 2020-2022: Graduate Scholarship, Technion
- 2019: Junior Research Fellow, AIIMS
- 2016: Merit Scholarship (MOMA), JMI

PRESENTATIONS

- 2022: Kumar A; Sohaib M; Schiller J. Low-frequency plasticity of olfactory bulb inputs mediated by Kv4.2 channels in rodent piriform cortex, poster presentation at FENS; July 2022; Paris, France
- 2022: Invited talk at Ernst Strüngmann Institute hosted by Hermann Cuntz, Peter Jedelicka.
- 2019: Poster presentation on Exploratory analysis of neuromorphometric data.

MANAGERIAL EXPERIENCE AND CERTIFICATIONS

- 2018: Graduate Aptitude Test in Engineering, Top 2 percentile
- 2017: Co-Organiser TEDxJMI. Led a pan-university team of 100+ individuals.
- 2015: Co-Founder SCONJ (Student community). Established connection with 400+ students within one year.
- 2014: JEE Mains, Top 5 percent

OTHER SKILLS

Software Igor, Photoshop, Illustrator, Microsoft Word, Excel, and PowerPoint
Languages English: professional proficiency. Urdu: native. Hindi: conversational.

HOBBIES

- Advocate and Felicitate Education for All.
- Interested in philosophy and long drives.