

17751 NE 90th St.
A306
Redmond, WA, USA
98052

(650) 772-8624
ssiddhar@eng.ucsd.edu
[Google Scholar Profile](#)
<https://ssiddharth.in>

EDUCATION

University of California San Diego (UC San Diego), CA, USA

Ph.D. in Electrical Engineering (Intelligent Systems, Robotics, and Control), 2020

M.S. in Electrical Engineering (Intelligent Systems, Robotics, and Control), 2017

Indian Institute of Information Technology (IIIT), Allahabad, India

B.Tech. in Electronics and Communications Engineering, 2015

WORK EXPERIENCE

User Research Specialist, Human Factors Engineering Lab, Microsoft, Redmond, WA, USA (July 2020 – present)

Graduate Researcher, Swartz Center for Computational Neuroscience, UC San Diego (Sep 2015 – June 2020)

Graduate Fellow Editor, Prospect Journal of International Affairs, UC San Diego (Sep 2019 – June 2020)

Senior Editor, Prospect Journal of International Affairs, UC San Diego (Jan 2019 – Aug 2019)

Graduate Student Member, South Asia Initiative, UC San Diego (Jan 2019 – June 2020)

Graduate Researcher, Computational Neurobiology Laboratory, Salk Institute (Sep 2015 – June 2020)

Graduate Researcher, Laboratory for Intelligent and Safe Automobiles, UC San Diego (Mar 2016 – June 2020)

Research Intern, Facebook Reality Labs (FRL), Facebook, Redmond, WA, USA (June – Sep 2019)

Research Intern, Facebook Reality Labs (FRL), Facebook, Redmond, WA, USA (June – Sep 2018)

Research Intern, Think Tank Team, Samsung Research America, Mountain View, CA, USA (Jan – June 2015)

Research Intern, French National Center for Scientific Research (CNRS), Montpellier, France (May – July 2014)

Research Intern, National University of Singapore (NUS), Singapore (May – July 2013)

FIELDS OF INTEREST

Artificial Intelligence, Bio-sensing, Computational Neuroscience, Affective Computing, Political Systems

FELLOWSHIPS, HONORS, AND AWARDS

Facebook Reality Labs, Research Grant, 2019

University of California, Chancellor's Research Excellence Scholarship, 2018

Kavli Institute of Brain and Mind, Innovative Research Grant, 2018

National Science Foundation, NCS Program, Received funding as a Graduate Researcher, 2017

University of California, Chancellor's Research Excellence Scholarship, 2017

University of California, Center for Wearable Sensors Grant, 2017

University of California, Frontiers of Innovation Scholars Program Grant, 2017

University of California, Center for Wearable Sensors Grant, 2016

Army Research Lab, Collaborative Technology Alliances, Received funding as a Graduate Researcher, 2016

Indian Institute of Information Technology, Runner-up in Student Project Contest at ACM-IITM, 2013

Indian Institute of Information Technology, First prize in Electronics Quiz Competition, 2012

SELECTED PUBLICATIONS

Siddharth and Trivedi M., *On Assessing Driver Awareness of Situational Criticalities: Multi-modal Bio-sensing and Vision-based Analysis, Evaluations, and Insights*, Brain Sciences, 2020

Siddharth, Jung, T.P., and Sejnowski, T., *Impact of Affective Multimedia Content on the Electroencephalogram and Facial Expressions*, Nature Scientific Reports, 2019

Siddharth, Jung, T.P., and Sejnowski, T., *Utilizing Deep Learning Towards Multi-modal Bio-sensing and Vision-based Affective Computing*, IEEE Transactions on Affective Computing, 2019

SIDDHARTH

Siddharth, Patel, A., Jung, T.P., and Sejnowski, T., *A Wearable Multi-modal Bio-sensing System Towards Real-world Applications*, IEEE Transactions on Biomedical Engineering, 2018

Siddharth and Trivedi, M., *Attention Monitoring and Hazard Assessment with Bio-Sensing and Vision: Empirical Analysis Utilizing CNNs on the KITTI Dataset*, IEEE Intelligent Vehicles Symposium (IV), 2019

PATENTS

Siddharth, Tzyy-Ping Jung, Terrence Sejnowski, *Biosensing and Eye-Tracking System*, US20190174039A1

Siddharth, Aashish Patel, Tzyy-Ping Jung and Terrence Sejnowski, *Wearable Multi-modal Bio-sensing System*, Provisional Patent No. 62/656,890

Jawahar Jain, Siddharth, Sajid Sadi, Pranav Mistry, *Emotion Evaluation*, US 20170007165 A1

Siddharth, R. C. Tripathi, and M. D. Tiwari, *A Method and Apparatus for Similarity Detection of Documents Based on Contents Including Texts, Tables, Flowcharts and Equations*, Indian Patent Application ref. no. 160/DEL/2014

RESEARCH IN PROGRESS

Working toward publishing a book *Founding Generations: A Biography of the Origins of World's Largest Democracies* on the founding fathers and origins of democracy in India and the United States of America.

Assessing the relationship between emotion elicitation and detection from bio-sensing perspective.

Conducting experiments to modulate games in real-time by utilizing affective feedback.

PROFESSIONAL ACTIVITIES

Presentations/Talks

2018: Invited to present graduate research (by video conferencing) at Human-Computer Interaction International Conference Workshop, IIIT Allahabad

2018: Presented graduate research at IEEE EMBC 2018 Conference, Honolulu, Hawaii

2018: Presented graduate research at the 7th BCI Meeting, Asilomar, CA

2017: Invited to present a talk on the topic "North Korea on the brink: Socio-Political Impacts of a Nuclear North Korea", Osher Lifelong Learning Institute, UC San Diego

2017: Presented graduate research at HCII Conference, Vancouver, Canada

2017: Presented graduate research at the UC San Diego Center for Wearable Computing Summit

2017: Invited to present an alumnus talk at IIIT Allahabad

2016: Presented graduate research at Society for Neuroscience (SfN) Conference 2016, San Diego, CA

2016: Invited to present an alumnus talk at IIIT Allahabad

Reviewer Service

IEEE PAMI, IEEE Transactions on Human-Machine Systems, MIT Press Neural Computation, ACM CHI Conference, IEEE Transactions on Affective Computing, IEEE Access

OTHER INFORMATION

Citizenship: India

Date of Birth: April 11, 1993