Swupnil Kumar Sahai

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EDUCATION

Columbia University Aug 2013 - Oct 2017
Ph.D. in Statistics
Advisors: Andrew Gelman & Tian Zheng

U.C. Berkeley Aug 2009 - May 2013
B.A. Honors in Applied Mathematics, Statistics, and Economics
Minor in Chinese Language and Culture

EXPERIENCE

Mangolytics - Co-Founder & CEO Jan 2019 - Present
Built Swing, an AI tennis app that is now the #1 downloaded tennis app for iOS
and currently featured on Apple's website for the Apple Watch Series 4 launch.

Tesla Motors - Sr Autopilot Computer Vision Engineer Oct 2017 - Jan 2019
Developed patent-pending deep learning approaches for 3D object detection,
pose estimation and tracking from monocular vision. Led the Vision team's
contribution to the $360°$ surround view in the instrument cluster and vastly
improved longitudinal control & safety (e.g. stationary approach, merges).

Tesla Motors - Autopilot Computer Vision Intern May 2016 - Aug 2016
Generated automatically labeled ground truth from IMU/driving data using
OpenCV in C++ and fit neural networks in Caffe.

PUBLICATIONS

Sahai, S., Jones, T., Cowan, S.K. & Zheng, T. "Estimating Personal Network Size with
Non-random Mixing via Latent Kernels." *Complex Networks*, 2018.

Sahai, S. "Topics in Computational Bayesian Statistics With Applications to Hierarchical
Models in Astronomy and Sociology." Diss. Columbia University, 2018.

Vehtari, A., Gelman, A., Sivula, T., Jylänki, P., Tran, D., **Sahai, S.**, ... & Robert, C.
"Expectation propagation as a way of life: A framework for Bayesian inference on
partitioned data." *arXiv preprint arXiv:1412.4869*, 2014.

POPULAR PRESS

"Triple Majors Make 27 at Cal Noteworthy." *San Francisco Chronicle.* January 2013.

SKILLS & INTERESTS

C++, Swift, Python, R, LaTeX
8 Years of Mandarin Chinese; Fluent in Hindi
Enjoy volunteering, traveling, Poker, skiing, basketball, and tennis