

Chunji Wang

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Your City, Your State
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EDUCATION

- **University of Southern California** *Ph.D. in Neuroscience* Los Angeles, CA, 2011/8 – 2017/8
- **Tsinghua University** *B.S. in Physics* Beijing, China, 2007/7 – 2011/7

SKILLS

- **Theories:** Machine Learning, Natural Language Processing (NLP), Deep Learning, Statistics
- **Languages:** Python, C++, Julia, R, C, Matlab, SQL, Scala, Java, Mathematica
- **Technologies:** Git, Qt, FX3, MySQL, Spark, AWS-EMR, Linux, Shiny, Kinect

WORK EXPERIENCE

- **Samsung Semiconductor, Inc.** *Sr. Imaging Software Engineer* Pasadena, CA, 2018/9 – present
 - **Camera systems:** Prototyping camera systems including experimental 3D cameras, color cameras and LiDAR.
 - **Imaging software:** Developing image capturing/processing software and algorithms, and firmware for experimental embedded cameras.
 - **Deep Learning software:** Developing Deep Learning algorithms and software for object recognition, image/video understanding, speech understanding and others.
- **Rule14** *Data Scientist* Santa Monica, CA, 2017/10 – 2018/9
 - **Utility load forecast:** Built utility load forecast models for millions of customers; integrated it with MySQL databases; automated back-end model training and testing.
 - **Customer churn prediction:** Built Gradient Boosted Trees to predict churn probabilities of millions of customers via xgboost. Achieved a lift of 5.
- **Innovation Solutions** *Data Scientist Intern* Santa Ana, CA, 2015/5 – 2015/6 and 2016/1 – 2016/5
 - **Real-time data processing:** Implemented applications to capture Kinect 3D skeleton data and calculate human anatomical joint angles in real time (Matlab & C#).
 - **Report and visualization:** Designed and implemented a web application to report full kinematics performance history to users and physical therapists (R, Shiny & SQL) with intuitive graphics.

PUBLICATIONS

- **Wang C** et al. Spin-orbit coupled spinor Bose-Einstein condensates. *Physical Review Letters*. 105.16 (2010): 160403.
- **Wang C** et al. The duration of reaching movement is longer than predicted by minimum variance. *Journal of Neurophysiology*. 116.5 (2016): 2342-2345
- Schweighofer N, **Wang C** et al. Dissociating motor learning from recovery in exoskeleton training post-stroke. *Journal of NeuroEngineering and Rehabilitation*. 15.1 (2018): 89.
- Martinez C, **Wang C**. Structural constraints on learning in the Neural Network. *Journal of Neurophysiology*. 114.5 (2015): 2555-2557