

Sooyoun Oh

CONTACT

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EDUCATION

Georgia Institute of Technology Aug 2019 — Present
PhD in Computational Science and Engineering
Co-advised by Dr. Xiuwei Zhang and Dr. Haesun Park.
Research interests: single cell RNA sequencing, biological data analysis, numerical methods.
GPA: 3.8125

Cornell University Aug 2015 — May 2019
BS in Computer Science, Minor in Applied Mathematics

WORK EXPERIENCE

Georgia Institute of Technology Aug 2019 — Present
Graduate Research Assistant

- Optimized clustering algorithms based on multiple data inputs.
- Determined single cell identities through clustering of their location and gene expression profiles.

Verisk: Atmospheric and Environmental Research Jun 2019 — Aug 2019
Scientific Computing Intern

- Adapted vehicle image detection algorithms for point clouds within TensorFlow.
- Optimized neural network training in AWS SageMaker and Workspaces.

National Institutes of Health June 2018 — Aug 2018
Clinical Center Intern

- Developed generative adversarial networks to create training images for medical segmentation algorithms.
- Presented my findings in a poster and paper in SPIE Medical Imaging

PAPERS

YB Tang*, S Oh*, YX Tang, J Xiao, RM Summers. *CT-realistic data augmentation using generative adversarial network for robust lymph node segmentation*. Medical Imaging 2019: Computer-Aided Diagnosis, 2019

* denotes equal contribution

POSTERS

X Pan, Z Zhang, S Oh, R Goel, P Kaul, R Yang, X Zhang. *Computational methods to study cell mechanisms from single cell data*. Georgia Scientific Computing Symposium. 2020.

YB Tang*, S Oh*, YX Tang, J Xiao, RM Summers. *CT-realistic data augmentation using generative adversarial network for robust lymph node segmentation*. Medical Imaging 2019: Computer-Aided Diagnosis. 2019.

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AWARDS

- Georgia Institute of Technology President's Fellowship
- Cornell University Dean's List
- Mabel Meritt Memorial Scholarship
- National Merit Scholarship