

# Sean Tsungyeh Yang

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## EDUCATION

### University of Washington

Seattle, Washington

Second Year Ph.D. Student in Electrical Engineering

Expected 2020

- **Selected Courses:** *Computer Vision, Introduction to Artificial Intelligence, Introduction to Statistical Learning, Data Science for DNA Sequencing, Web Programming, and Digital Video Coding Systems*

### National Chiao-Tung University

Hsinchu, Taiwan

Bachelor of Science in Photonics

Sep, 2010 – Jun, 2014

GPA: 3.78/4.30 Rank: 5/34(14.7%)

- **Senior Design Project:** “Porous Organic PQT-12 Diode Ammonia Sensor”, an organic PQT-12 -diode serving as a sensor of tracing ammonia, was studied for early diagnosis of liver cancer.

### University of Illinois at Urbana-Champaign

Urbana, Illinois

Study abroad program in Electrical and Computer Engineering

Jan, 2014 – May, 2014

GPA: 4.00/4.00

- **Courses Taken:** Biomedical Imaging, Green Electric Energy, Creativity Innovation & Vision, and Individual Study in ECE

## RESEARCH PROJECTS

### University of Washington

- VizioMetrics – *Information School, under the supervision of Dr. Bill Howe* Mar, 2016 – current
  - **PhyloParser** – Built an automatic tool to recover the tree structure within phylogenetic images. The project involves knowledge of computer vision and machine learning.
  - **Journal Visual Signature** – Clustered journals based on their deep visual signature. The project involves knowledge of deep learning, feature selection, and feature reduction.
- Global Impact of UW – *Office of Global Affairs, under the supervision of Dr. Jevin West* Sept, 2016 – Mar 2017
  - I looked into the global impact of UW faculty based on open source data from Microsoft. This project includes knowledge of data mining, data analysis, and data visualization.

### National Chiao-Tung University (NCTU)

- OLED sensor – *under the supervision of Professor Hsiao-Wen Zhang*
  - Acquired certificate of the Clean room in National Nano Device Laboratories.
  - Fabricated an OLED device using blade-coating technique and CVD.
  - Designed and fabricated a porous organic diode using RIE, CVD, and spin-coating techniques.
  - Designed and fabricated a double fiber film sensor that reacted to traces of Fe<sup>3+</sup>.

## PROGRAMMING LANGUAGES

C, C++, Python, MySQL, HTML, CSS, Javascript, PHP, Matlab

## PUBLICATIONS

Bill Howe, Po-Shen Lee, Maxim Grechkin, **Sean T. Yang**, and Jevin West, “**Deep Mapping of the Visual Literature**”, BigScholar WorkShop, Australia, 2017

Hung-Cheng Lin, **Sean Tsungyeh Yang**, Sock Hoon Ng, Shi-Rong Liu, Chao-Yiu Chang, Hsiao-Wen Zan, Hsin-Fei Meng, Shu-Pao Wu and Hin Yong Wong, “**Hydro gel light-guiding conjunction for absorptive type multi-ions detection**”, Sensors and Actuators B: Chemical, Volume 233, Pages 535-539, 2016