ANNE EN-TZU YANG

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EXPERIENCE

- Data Science Fellow, Insight Data Science (Minneapolis, MN)
- 2019/09 2019/10
- Predicted the air quality inside Paris metro stations to help passengers manage health risks.
- Utilized PROPHET and ARIMA for time series analysis, resulting in XX% forecast accuracy.
- Identified predictors for R = XX correlation using TensorFlow's neural network regression.
- Postdoc, Institute for Intelligent Systems and Robotics (Paris, France) 2018/09 2019/08
 - Expedited the tracking of robotic surgical tools from 2D X-ray images ($\sim 10ms/{\rm frame}$).
 - Employed convolutional neural network to reconstruct 3D angles (errors $< 1^{\circ}$).
 - Published results at international conferences, tinyurl.com/cath2019.
- PhD Intern, Sanofi (Bridgewater, NJ)

2017/06 - 2017/08

- Added new functions to more accurately model asthma formation and treatment.
- Performed t-test and anova test on clinical trial data on asthma medication.
- Wrote MATLAB scripts to automate statistical tests and data visualization.
- PhD Candidate, Northwestern University (Evanston, IL)

2012/09 - 2018/08

- Investigate the neural pathway of human's sense of touch using the model system of rat whiskers.
- Constructed models in Python and MATLAB to quantify the mechanical signals when whiskers sense contacts or airflow and the resultant neural responses in the rat's brain.
- Predicted 4 types of neurons response from 420 sets of 100-ms data sampled at 1kHz.
- Summarized data from > 500 whisker for predictive modeling on rat whisker geometry.

SKILLS

- Languages, Python, SQL, Matlab, LaTeX
- Packages, Pandas, Flask, Numpy, Scipy, TensorFlow, PostgreSQL
- Tools, Git, Jupyter Notebook, Linux
- Knowledge, computer vision, analysis, machine learning, statistics, communications, mathematics, visualization, deep learning, natural language processing, software development, neural network, convolutional neural network

EDUCATION

• Northwestern	University $(Evanston, IL)$
PhD, Mechanical Engineering	

2012/09 - 2018/08

• Kellogg School of Management (Evanston, IL)
Certificate, Management for Scientists and Engineers

2016/06 - 2016/08

• National Taiwan University (Taipei, Taiwan)
BS, Mechanical Engineering

2008/09 - 2012/06