ANNE EN-TZU YANG

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SKILLS

- Languages, Python, SQL, Matlab, LaTeX
- Packages, Pandas, Flask, Numpy, Scipy, TensorFlow, PostgreSQL
- Tools, Git, Jupyter Notebook, Linux
- Knowledge, computer vision [what type], analysis, machine learning (flavors), statistics (GLM, ANOVA), communications, mathematics, visualization, deep learning, natural language processing, software development, neural network, convolutional neural network [a lot more details, regressions, classifications, models, tools]

EXPERIENCE

• Data Science Fellow, Insight Data Science (Minneapolis, MN)

2019/09 - 2019/10

- Developed [a webapp to depict predicted] the air quality inside Paris metro stations to help passengers manage health risks [safety risks and measures].
- 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.
- WebApp stuff.
- Postdoc, Institute for Intelligent Systems and Robotics (Paris, France) 2018/09 2019/08
 - Designed markers to aid the detection of the shape and orientation of flexible surgical tools from 2D X-ray images [SIGNIFICANCE].
 - Employed convolutional neural network to process images and reconstruct 3D shape and orientation angles ($\sim 10ms/\text{frame}$) (errors $< 1^{\circ}$).
 - Published results at IEEE and local surigcal robotic conferences, tinyurl.com/cath2019 [maybe the poster too?].
- PhD Intern, Sanofi (Bridgewater, NJ)

2017/06 - 2017/08

- Wrote a sub-function to revise an existing model on asthma formation and treatment [more details/improvement].
- Performed t-test and ANOVA test on clinical trial data on asthma medication.
- Wrote MATLAB scripts to automate statistical tests and data visualization[save time and energy][takeaway].
- PhD Candidate, Northwestern University (Evanston, IL)

2012/09 - 2018/08

- Investigated the neural pathway of rat whiskers to understand human's sense of touch.
- Constructed [what kind of models?] models in Python and MATLAB to quantify mechanical signals on the whiskers and resultant neural responses in the brain when rats sensed contact or airflow.
- Predicted 4 categories of neural responses from 420 sets of 100-ms data sampled at 10kHz. [accuracy/precisions]
- Summarized trends in data from > 500 rat whiskers, and built predictive model for rat whisker geometry given identity.

EDUCATION

• PhD , Northwestern University (Evanston, IL) – Mechanical Engineering	2012/09 - 2018/08
 Certificate, Kellogg School of Management (Evanston, IL) Management for Scientists and Engineers 	2016/06 - 2016/08
• BS , National Taiwan University (Taipei, Taiwan) — Mechanical Engineering	2008/09 - 2012/06