

# Po-Yu Hsieh

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## EDUCATION

**Boston University**, Boston, Massachusetts, United States Sep 2017 — May 2019

Master of Science in Computer Science, GPA: 3.66

- Relevant Coursework: Computational Tools for Data Science, Advanced Databases Applications, Machine Learning, Data Mechanics, Natural Language Processing, Embedding Systems

**National Taiwan University (NTU)**, Taipei, Taiwan

Sep 2009 — Jun 2014

Bachelor of Business Administration in Finance

- Major GPA: 3.68, CS courses GPA: 3.52
- Relevant Coursework: Wireless Networking, Digital Humanities, Digital Visual Effects

## WORK EXPERIENCE

**Klaviyo**, Boston, Massachusetts, United States

Sep 2019 — Sep 2020

Data Science Software Engineer

- Supported team data scientists to gather service data for analysis and potential product ideas
- Sampled and compared service data from different sources to ensure data consistency of feature under development with other services
- Developed product prototype with React, Django, Flask as an internal analytics tool to obtain feedback from customer success and product design teams
- Maintained automated data collecting process for COVID-19 insight analysis<sup>[1]</sup>

**Research Center for Digital Humanities, NTU**, Taipei, Taiwan

Jan 2016 – Jul 2017

Research Assistant

- Developed 5 database building and text analysis webpage tools for DocuSky, a database platform to store and analyze text corpus<sup>[2]</sup>
- Introduced DocuSky and research findings using this platform at the 2016 Conference of Digital Archiving and Digital Humanities<sup>[3]</sup>

## COURSE PROJECTS

**Boston StreetCaster**<sup>[4]</sup> (Spark! Practicum, Boston University)

Spring 2019

- Collected sidewalk images from Google's street view API service based on Boston city's geographic street and sidewalk dataset, to help facilitate local sidewalk maintenance
- Provided workflow to transform location coordinates in original geographic dataset, and generate camera settings for API queries to capture images of specified area

**DNA Sequence Image Identification**<sup>[5]</sup> (Boston University)

Fall 2018

- Classified type of DNA sequence from fluorescent-labeled DNA images
- Used RetinaNet, TensorFlow, and synthesized images to build up an image object identification model which can locate occurrence of DNA pieces in real image for further classification tasks

**Writing Style Analysis** (National Taiwan University)

Spring 2014

- Designed a Python 3 text analysis module to compare writing style or habit between different texts with 3 different approaches, then applied it in 2 novel authorship attribution cases
- Re-implemented the algorithm in JavaScript and provided as one of the webpage tools for DocuSky in 2016

## TECHNICAL SKILLS

### Programming Language

Python, JavaScript (Node.js, ECMAScript 6, TypeScript), Java, C

### Databases, Web Applications, Development

- **Databases:** SQL (MySQL)
- **Web Applications:** Django, React, jQuery, CSS/SCSS, HTML
- **Data Science:** Pandas, NumPy, scikit-learn
- **Development Tools:** Git/Github, Jupyter

## LANGUAGE SKILLS

- English (TOEFL Total 106 (2016); GRE V153/Q167/AW3.0 (2016))
- Mandarin (First Language)

## REFERENCES

1. Klaviyo's COVID-19 Insight Page: <https://www.klaviyo.com/covid-19-daily-ecommerce-insights>
2. DocuSky: <https://docusky.org.tw>
3. Talk Slides for DADH-2016: <https://pse.is/3c42m3> (short URL)
4. StreetCaster Project Repo: <https://github.com/ddehueck/BostonStreetCaster>
5. XGenomes' Collaboration Project Repo: <https://github.com/tnmcneil/XGenomesProject>