

# KEVIN YIU-WAH CHEUNG

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## EDUCATION

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**Master in Computer and Information Science**  
University of Pennsylvania

August 2020 - May 2022

**Bachelor of Science in Computer Engineering**  
University at Buffalo, SUNY

August 2015 - May 2019

**GPA: 3.785/4.00**

Programming Languages: Python, Java, R, Numpy, Pandas, Keras, scikit-learn, Tableau, Spark, MySQL, SQL, Keras, Access

## PUBLICATION

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**Kevin Yiu-Wah Cheung**, Darasy Reth, Chen Song, Zhinan Li, Qin Li, Wenyao Xu

BigFoot: A Mobile Solution toward Foot Parameters Extraction, IEEE International Conference on Wearable and Implantable Body Sensor Networks (BSN19), Chicago, IL, USA, May 2019

## RESEARCH EXPERIENCE

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**Moisture Sensor by using mmWave Radar**

*Ub Embedded Sensing and Computing Lab Research Assistant*

*Januray 2019 - July 2019*

- Assist PhD candidate
- Collect and preprocess microacoustic-wave data by using Pandas
- Perform signal-processing and pattern recognition algorithms, including FFT and Spectrogram Analysis
- Refine and improve Neural Network models up to 90% accuracy in binary classification

## INTERNSHIP

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**China Citic Bank International Limited (New York Branch)**

*IT Intern, Advisor Adam Vuong*

*January 2020 - Present*

- Modify and test database applications. Document programming and system changes. Database modeling and data structure principles, techniques and best practices.
- Assist in enhancing the business reporting modules for various departments
- Assist departments with SQL queries and macros in MS Access and database development methodologies
- Assist migration from MS Access to MS SQL

**IntelliGenesis LLC**

*Research Assistant, Advisor Guy Howard*

*June 2019 - August 2019*

- Work closely with AI leaders in a team of 5 to implement and evaluate clustering algorithms
- Develop an application for predicting APTs by using TTPs data
- Evaluate performance of predictive models (KMeans, Hierarchical Clustering) by using Dunn Index and Daives Bouldin Index

## PROJECTS

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**Intensive Data Computing Project**

2019 Spring

- Retrieve 20GB data from Twitter API, NY Times API and common crawl with provided keywords
- Implement wordCount algorithm in MapReduce and run it on AWS EMR
- Visualize the result as words cloud in Tableau

## AWARD

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Meritorious Winner Award in Mathematical Contest In Modeling, 2019