

# WONKWON LEE

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## EDUCATION

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**New York University** New York, NY  
M.S. in Computer Science 05/2023  
Awards & Honors: Wasserman Career Grant GPA: 3.48  
Relevant Coursework: Computer Vision, Natural Language Processing, Responsible Data  
Science, Data Science for Healthcare, Advanced Database Systems

**University of Manchester** Manchester, UK  
B.S. in Computer Science and Mathematics 06/2018  
Awards & Honors: International Mathematics Merit Scholarship Upper-Second Class Honors  
Relevant Coursework: Machine Learning, Convex Optimization, Linear Algebra, Graph Theory

## RESEARCH EXPERIENCE

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**New York University, Center for Responsible AI** New York, NY  
*Graduate Research Assistant* 09/2022 – 05/2023

- Conducted research in Differentially Private synthetic data generation under Professor Julia Stoyanovich using various DP synthesizers and comparing statistical distributions, contributing to a publication in PVLDB Vol. 16
- Achieved Best Paper Runner-Up Award for the Experiment, Analysis, & Benchmark Track in VLDB2023 and SIGMOD 2024 Highlight award
- Replicated ICPSR papers with public data and privatized data and assess the loss to evaluate various DP methods

**New York University, McDevitt Lab** New York, NY  
*Graduate Research Assistant* 10/2021 – 02/2022

- Performed diagnostic prediction modeling research for the Colgate Project under Professor John T. McDevitt, utilizing machine learning and statistical methods for data analysis
- Preprocessed and visualized complex unstructured biomarker data from AI-driven microfluidic chip-based sensors using SQL, statistical analytics tools such as Stata and R, Pandas, and Seaborn

**University of Manchester** Manchester, UK  
*Final Year Undergraduate Research Project* 09/2017 – 06/2018

- Implemented a Spiking Neural Network simulator using Python, QtPy5, Brian2, neurodynex and conducted simulations to analyze different dynamical behaviors in single neurons or neuronal networks and examine the synchronicity of the system

- Supervised by Dr. Eva Navarro Lopez with the thesis ‘Models of Neurons and Neuronal Networks,’ which was selected in one of the Best Computer Science Project Papers in 2018

## **Korea University, Wireless Intelligence at Network Edge Lab**

Seoul, South Korea

*Undergraduate Research Intern*

06/2015 – 08/2015

- Supervised by Professor Hwangnam Kim and participated in Drone Project as a Summer Undergraduate Research Intern.
- Implemented new functionalities to optimize the real-time simulation of networked drone fleet using MATLAB.

## **PUBLICATIONS**

Rosenblatt, L., Herman, B., Holovenko, A., Lee, W., Loftus, J., McKinnie, E., ... & Stoyanovich, J. (2024). Epistemic Parity: Reproducibility as an Evaluation Metric for Differential Privacy. ACM SIGMOD Record, 53(1), 65-74. **2024 SIGMOD Highlight Awards**

Rosenblatt, L., Herman, B., Holovenko, A., Lee, W., Loftus, J., McKinnie, E., ... & Stoyanovich, J. (2023). Epistemic Parity: Reproducibility as an Evaluation Metric for Differential Privacy. Proceedings of the VLDB Endowment, 16(11), 3178-3191. **Best Experiment, Analysis, & Benchmark Paper Runner-ups**

Rahman, S., & Lee, W. (2023). Out of distribution performance of state of art vision model. arXiv preprint arXiv:2301.10750.

## **HONORS & AWARDS**

SIGMOD Highlight Awards	2024
VLDB Best Experiment, Analysis, & Benchmark Paper Runner-ups	2023
Wasserman Career Grant	2021
KMA Landslide Prediction Big Data Contest	2021

## **GRANTS & FELLOWSHIPS**

NYU Wasserman Career Grant	2021
University of Manchester International Mathematics Merit Scholarship	2015-2017

## **PROFESSIONAL EXPERIENCE**

### **LG CNS America**

Englewood Cliffs, NJ

*Network System Engineer*

04/2024 - Present

- In 1-3 sentences/phrases, describe the course and your role in teaching it (formulated, assisted, devised syllabus, lectured, administered grades)
- Developed new organic chemistry course structure and presented material to 120 students across 4 sections, achieving a 4.7/5.0 average rating on teacher-course evaluations

**Pricewaterhouse Coopers**

New York, NY

*Data Scientist Intern*

06/2022 - 08/2022

- Implemented a BERT-based relation extraction model that classifies semantic relationship between entities, fine-tuned on the TACRED dataset using PyTorch
- Defined data annotation, ML pipelines, testing strategy, and deployed models to AWS cloud platforms

**Mozzign**

New York, NY

*Network System Engineer*

06/2021 - 08/2021

- Analyzed US health insurance data and implemented Regression and Random Forest models to estimate a customer's premium based on health, medical, and workout data using Pandas, Seaborn, Matplotlib, scikit -learn, and NumPy
- Led a team of 6 interns as a Product Manager and implemented project management by conducting regular project meetings, facilitating communication, and supervising the project team

**Republic of Korea Air Force**

Seongnam, South Korea

*Staff Sergeant*

12/2018 - 10/2020

- Mandatory military service in Republic of Korea Air Force at Seoul Air Base
- Administered the military intranet and server, delivered military security works, and provided technical support

**REFERENCES**

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3 references with the following information:

Julia Stoyanovich  
New York University  
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