

Min Namgung

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<https://minnamgung.github.io/>

INTEREST	Spatial Artificial Intelligence, Representation Learning, Deep Learning, Data Mining	
EDUCATION	University of Minnesota – Twin Cities	Minneapolis, MN
	<i>Ph.D. student in Computer Science&Engineering (GPA 4.0/ 4.0)</i>	August 2021 – Present
	<i>CS Grad Coordinator in Women and BIPOC in CS&E</i>	August 2022 – Present
	Purdue University Fort Wayne	Fort Wayne, IN
	<i>Master of Science in Computer Science (GPA 4.0/ 4.0)</i>	December 2020
PUBLICATION	<ul style="list-style-type: none">• Master's Thesis: Performance Comparison of Public Bike Demand Predictions: The Impact of Weather and Air Pollution	
	Purdue University Fort Wayne	Fort Wayne, IN
	<i>Bachelor of Science in Computer Science</i>	May 2019
	Min Namgung , Yao-Yi Chiang (GeoAI 2022) Incorporating Spatial Context for Post-OCR in Map Images	
	(Submitted) Min Nagung, Theresa Chen, Yao-Yi Chiang (UCGIS 2023) Representation Learning of Regions using Unevenly Distributed, Incomplete Multi-Modal Data	
POSTER & PRESENTATION	(Accepted) Min Nagung, Yao-Yi Chiang (AAG 2023) Preserving 2-Dimensional Spatial Relation for Map Text in Post-OCR Processing	
RESEARCH EXPERIENCE	Jina Kim(*), Min Namgung (*), Johannes Uhl, Keith Burghardt, Yao-Yi Chiang, Stefan Leyk, Kristina Lerman (SaptialHumanities 2022) Identifying Street Name Evolution in Semantic, Temporal, and Geographic Spaces (* denotes equal contribution)	
	Min Nagung (UCGIS 2022) Incorporating Prior Knowledge To Forecast Fine-Grained Cloud-Top Temperature	
	University of Minnesota	
	Knowledge Computing Lab	August 2021 – Present
	Advisor: Dr. Yao-Yi Chiang Research on Spatio-Temporal data	
RESEARCH EXPERIENCE	<ul style="list-style-type: none">• Capture various spatial information from multi-modal data (Satellite, OpenStreetMap, Google Street View Image)• Forecast fine-grained spatio-temporal weather data• Process post-Optical Characteristic Recognition (post-OCR) from historical map images	
	Purdue University Fort Wayne	
	Graduate Research Thesis	Spring 2020 – Fall 2020
	Advisor: Dr. Jin Soung Yoo Machine Learning and Big Data	
	<ul style="list-style-type: none">• Studied public bike-sharing demand predictions and impacts with air pollution and precipitation• Used multiple machine learning algorithms for the bike demand models and evaluated performance	
RESEARCH EXPERIENCE	Business Intelligence and Information Management Lab	Summer 2020 – Fall 2020
	Advisor: Dr. Adolfo S. Coronado Machine Learning and Data Analytics	
	<ul style="list-style-type: none">• Suggested a new objective approach of university ranking computation by comparing multiple models• Used a machine learning supervised algorithm to evaluate each models' performance	

TEACHING	University of Minnesota – Twin Cities	
	<i>Lead Teaching Assistant</i>	
	CSCI4707: Practice of Database System	Fall 2022
	CSCI1933: Introduction to Algorithms and Data Structures	Fall 2021
	CSCI1913: Introduction to Algorithms, Data Structures, and Program Development	Spring 2022
	Purdue University Fort Wayne	
WORK EXPERIENCE	Graduate Teaching Assistant	Fall 2019 – Spring 2020
	CS364: Introduction to Database Systems in Department of Computer Science	
	CS160, CS161: Introduction to Computer Science I, II	
	Undergraduate Teaching Assistant	May 2018 – Spring 2020
	CS112: Computer Science for Everyone	
	Chamberlain Group	Summer 2020
HONORS AND AWARDS	<i>Mobile Engineer Summer Intern</i>	Oak Brook, Illinois
	Parkview Health	August 2018 – May 2019
	<i>Back-end Developer</i>	Fort Wayne, IN
	Purdue Indiana Manufacturing Competitiveness Center (IN-MaC)	May 2018 – March 2019
	<i>Software Developer</i>	Fort Wayne, IN
	Best PC member in CIKM 2022	Fall 2022
PROFESSIONAL SERVICE	Graduate Teaching Assistant Scholarship	Fall 2019 – Spring 2020
	Chancellor’s Merit Award Scholarship	Fall 2017 – Spring 2019
	Dual-Degree Program Scholarship	Fall 2017 – Spring 2019
	Dean’s List and Semester Honors’ Certificates	Fall 2018 – Spring 2019
	Academic Excellence Scholarship	Fall 2016
	AAAI International Workshop on Health Intelligence	2023
VOLUNTEER EXPERIENCE	CIKM Conference on Information and Knowledge Management (Best PC member award)	2022
	ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems	2022
	ACM SIGSPATIAL International Workshop on AI for Geographic Knowledge Discovery	2022
	Girls Who Code at Purdue University Fort Wayne	September 2018 – January 2019
	• Led female high school students in discussing computer science subjects	
	Volunteer, Big Event at Purdue University Fort Wayne	April 2018
LEADERSHIP AND ACTIVITIES	• Volunteered with non-profit group which gave away free clothes	
	Volunteer, 1st and 2nd Korea Festival at Fort Wayne, IN	September 2017, 2018
	• Volunteered with the Korean community in Fort Wayne	
	Hana children’s welfare church at Seoul, Korea	September 2014 – February 2016
	• Taught children aged from 7 to 15 in general subjects	
	University of Minnesota – Twin Cities	
LEADERSHIP AND ACTIVITIES	<i>President of Korean Engineering Association</i>	September 2022 – Present
	<i>Vice-President of Korean Engineering Association</i>	September 2021 – August 2022
	• Lead a community group as the vice-president	
	Purdue University Fort Wayne	
	<i>President of Club Seoul</i>	Fall 2017 – Summer 2018
	• Led a community group as the president of Club Seoul	

SOPT: Computer Club at Seoul, Korea

Fall 2015 – Spring 2016

- Participated in study groups, created business model, implemented an Android mobile application

President of Bong-Dal-E: Volunteer Club at Seoul, Korea

Fall 2015– Spring 2016

- Led a volunteer club as the president and bi-weekly volunteered at Hana welfare church

**TECHNICAL
SKILLS****Advanced** Pytorch, Python, Java, R, SQL, PySpark, Spark, Postgres**Moderate** Hadoop, C++, NodeJS, HTML, CSS, JavaScript, MongoDB**LANGUAGE**Fluent in **English** and Native in **Korean****REFERENCE****Dr. Yao-Yi Chiang** *Ph.D. Advisor, Associate Professor*

Department of Computer Science and Engineering

University of Minnesota – Twin Cities

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Dr. Adolfo S. Coronado *Interim Assistant Dean and Associate Professor*

College of Engineering, Technology, and Computer Science

Purdue University Fort Wayne

260-481-6181, Email: coronado@pfw.edu

Dr. Jin Soung Yoo *Professor and Director of Computer Science Graduate Program*

Department of Computer Science

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