



Garam Kim

11/11/1992

South Korean Nationality

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EDUCATION

- 09/2020 - Present **Technische Universität Berlin**, Berlin, Germany
M.Sc. student in Scientific Computing
- 03/2019 - 08/2020 **Pusan National University**, Busan, South Korea
Master of Science in Mathematics. GPA: 4.5/4.5
Brain 21 Korea plus Award (Academic Performance, government funding scholarship)
Master's thesis: Convergence of Newton's Method in Solving Quadratic Matrix Equation with Artificial Neural Network (Advisor: Prof. Hyun-Min Kim)
- 03/2018 - 08/2018 **Universität Hamburg**, Hamburg, Germany
Free Mover in MathMods (Joint Master's Degree, Mathematical Modelling in Engineering)
- 09/2017 - 02/2018 **Universität Regensburg**, Regensburg, Germany
Exchange Student
- 03/2013 - 02/2019 **Pusan National University**, Busan, South Korea
Bachelor of Science in Mathematics. GPA: 3.3/4.5
University designated scholarship (2013-2015).
Major in Mathematics Education

PUBLICATION

Young-Jin Kim, **Garam Kim***, Sangil Kim*, Dawoon Jung & Minwoo Park. (2021). "Designing optimizing procedures for task switching to ensure efficiency in the hospital laboratory". *Scientific reports* 11, 12717.

EXPERIENCE

- 08/2021 - Present **Zuse Institute Berlin**, Berlin, Germany
Student Assistant
- Working on Conditional Gradient method
- 03/2019 - 08/2020 **Industrial Mathematics Center on Big Data**, Pusan National University
Graduate Research Assistant
- Analyzing data at the laboratory in the hospital and developing a new mathematical algorithm to enhance work efficiency
 - Joining a project which developing models on predicting real estate price using Machine Learning tools
 - Translating "Gilbert Strang, Linear Algebra and Learning from data" (Cambridge Univ Pr, 2019) into Korean in a team
 - Teaching how to use basic python to analyze data and leading project on "Making better city"

TEACHING

- 03/2019 - 08/2020 **Pusan National University**
Teaching Assistant
- Answer questions in person and online, marked assignment and proctored exams
 - Subjects: Linear Algebra (SoSe 2019), Calculus (WiSe 2019/20), Analysis (SoSe 2020).

AWARDS

Excellence Scholarship & Top Academic Performer (Department of Mathematics, 2020)
Brain 21 Korea Plus (Korean Government, 2019-2020)
University designated scholarship (Pusan National University, 2013-2015)
Samsung dream class scholarship (Samsung dream class scholarship foundation, 2013)

SKILLS

Tools: Python, MATLAB, LaTeX

Language: Korean, English, German (intermediate level)