



## 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

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### 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.

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### EXPERIENCE

- 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
  - 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
  - Teaching how to use basic python to analyze data and leading project on "Making better city"

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### 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).

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### 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)

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### SKILLS

**Tools:** Python, MATLAB, LaTeX  
**Language:** Korean, English, German (intermediate level)