# Matthew Kownacki

Personal Website

LinkedIn

✉ mmkinduction@gmail.com

GitHub Profile

## EDUCATION

•**MS Computer Science: Machine Learning Specialty.** *Georgia Tech.* GPA: 4.0      *Fall 2023 to Present*

•**PhD Mathematics (Incomplete).** *Boston College.* GPA: 3.91      *Fall 2017 to Fall 2019*

•**BA Mathematics.** *Rutgers University-New Brunswick.* GPA: 3.82      *Fall 2012 to Fall 2016*

## EMPLOYMENT

•**Private Tutor**      *2020-Present*
*Self-Employed: Remote/Seattle Metro Area*

- Tutored a variety of complex mathematics and computer science course material, including: calculus, probability, statistics, differential equations, linear algebra, data structures, algorithms, discrete mathematics.
- Assisted students and working professionals with developing general programming skills in several languages, including: Python, Javascript, Java, and MATLAB.
- Created specifically tailored lesson plans and assessments to ensure client learning goals were met.

•**Teaching Assistant/Graduate Assistant**      *2017-2019*
*Boston College Mathematics Department*

- TA duties(Calc. I, II, and Mult. Calc.) included running several weekly recitation sessions as well as administrative duties.
- GA duties (Calc. II) included creating weekly lesson plans, giving lectures 4x weekly, as well as collaborating with other lecturers and the course coordinator on creating and grading exams.

## SELECT PERSONAL PROJECTS

•**EBook DataSci**
 A data science service geared towards the eBook industry. (Python, Javascript, React, Docker, Bash). Website link. Github link.

•**The Miller-Rabin Primality Test Revisited**
 Revamped research code for the Miller-Rabin primality test. (Rust,Python,C).Github link.

•**Discord Reminder Bot**
 Discord bot that manages helpful reminders, timers, and calendar events. (Python).Github link.

## TECHNICAL SKILLS

**Languages**: Python, Rust, Javascript, Typescript, Java, SQL, HTML/CSS, C, C++
**Tech**: Linux, TensorFlow, Node.js, Docker, React, MATLAB, Maple, Mathematica
**Interests**: Data Science and Machine Learning, LLMs, Diffusion Models

## PUBLICATIONS

- Carbone, L., Kownacki, M., Murray, S. H., Srinivasan, S. (2020). *Commutator relations and structure constants for rank 2 Kac–Moody algebras.* Journal of Algebra, 566, 443-476.
- Kownacki, M. (2016) *On the Distribution of Witnesses in the Miller-Rabin Test.*