Minjae Kwon

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Education

University of Virginia, Charlottesville, VA, USA

Ph.D. Candidate, Computer Science

Kyungpook National University, Daegu, South Korea

Ph.D. Mathematics Thesis: On a generalized class of Noetherian rings

Technical Research Personnel for Military Service

Aug 2022–Present

Mar 2017–Aug 2022

Feb 2019–Feb 2022

Kyungpook National University, Daegu, South Korea Mar 2011–Feb 2017 B.S. & M.S. Mathematics Thesis: The Krull Dimension of Composite Power Series Rings

over Valuation Rings

Research Experience

University of Toronto, Toronto, Canada Sep 2021–Feb 2022 Visiting Scholar (fully funded by NRF & MITACS — C\$20k) Research on recursive time-series augmentation.

Publications

C - Conference, J - Journal, P - Preprint, * - equal contribution

- [C2] Minjae Kwon, Ingy ElSayed-Aly, Lu Feng, "Adaptive Reward Design for Reinforcement Learning," Conference on Uncertainty in Artificial Intelligence (UAI), 2025.
- [C1] Amine Mohamed Aboussalah, Minjae Kwon, Raj G Patel, Cheng Chi, Chi-Guhn Lee, "Recursive Time Series Data Augmentation," International Conference on Learning Representations (ICLR), 2023.
- [P2] Minjae Kwon, Tyler Ingebrand, Ufuk Topcu, Lu Feng, "Runtime Safety through Adaptive Shielding: From Hidden Parameter Inference to Provable Guarantees," *Preprint*, 2025.
- [P1] Dong Kyu Kim, Minjae Kwon, Jung Wook Lim, "On S-strong finite type rings," Preprint.
- [J1] Minjae Kwon, Jung Wook Lim, "On Nonnil-S-Noetherian Rings," Mathematics, 2020.

Grants & Awards

• NRF (KR) & MITACS (CA) Graduate Student Travel Grant — C\$20k 20	021 - 2022
• BK21 Plus Research Scholarship (Doctoral) 20	017 - 2021
BK21 Plus Outstanding Participation Award	2017
• Math Help Center, Best Tutor Award	2016
• Graduate Fellowship, Admission with Highest Distinction	2015
• The 33th Mathematics Competition for University Students in Korea, Silver Medal	2014

Selected Talks

^{1. &}quot;Some Global Dimension of Power Series Rings over w-coherent Rings.", Mediterranean Conf. on Pure & Applied Math, Paris, Aug 2019.

- 2. "Note on w-SFT Rings.", Honam-Youngnam Math Societies, Jeju, Oct 2018.
- 3. "The Krull Dimension of Composite Power Series Rings over Valuation Rings.", KOOK-TAPU Joint Seminar, Osaka, Jul 2017.
- 4. "On Nonnil-S-Noetherian Rings.". Joint Mathematics Meetings, Seattle, Jan 2016.

Teaching Assistant Experience

University of Virginia, USA

- \bullet CS 6763/SYS 6763 \cdot Cyber-Physical Systems: Formal Methods, Safety & Security, 2024–2025
- CS 4710 · Artificial Intelligence, 2023, 2025

Kyungpook National University, South Korea

- CLTR211/212 · Calculus I–II, 2015–2017, 2020
- \bullet MATH231/232 \cdot Linear Algebra I–II, 2017–2018
- MATH235 · Number Theory, 2017–2018
- MATH292 · Set Theory & Mathematical Logic, 2017
- MATH429 · Special Topics in Geometry, 2018
- MATH413/414 · Modern Algebra I–II & Seminar, 2015–2019