

Wooseok Yang

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Quality team

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Personal

Born on January 13, 1993.

Citizen of South Korea.

Experience

Staff Engineer

Quality Team, TSP (Test and System Package), Samsung Electronics. (Sep. 2021 - present)

Crowdsourcing Researcher

Crowdsourcing Team, SelectStar (Mar. 2021 - Aug. 2021)

Education

Ph.D in Mathematical Science, KAIST, Daejeon, Republic of Korea (Mar. 2017 - Aug. 2021)

Thesis : Spectral statistics for stochastic block models

Advisor : Ji-Oon Lee

M.S in Mathematical Science, KAIST, Daejeon, Republic of Korea (Mar. 2015 - Feb. 2017)

Thesis : Limiting distributions of the largest eigenvalues of sparse matrices

Advisor : Ji-Oon Lee

B.S in Mathematical Science, KAIST, Daejeon, Republic of Korea (Feb. 2010 - Feb. 2015)

Publications

Local law and Tracy–Widom limit for sparse stochastic block models (with J. Y. Hwang and J. O. Lee)

Bernoulli, **26**, 2400-2435 (2020)

Spectral Properties and Weak Detection in Stochastic Block Models (with J. O. Lee and Y. Han)

<https://arxiv.org/abs/2309.08183> (2023)

Research interests

Random matrix theory, Probability and Statistics, AI, Deep learning

Talks

"Local law and Tracy–Widom limit for sparse stochastic block models" in 2019 KMS Spring Meeting, Kangwon National University, Chuncheon, Korea, 2019/04/19-20

"Local law and Tracy–Widom limit for sparse stochastic block models" in Random Matrix Theory: Applications in the Information Era, Jagiellonian University, Kraków, Poland, 2019/04/29-05/03

Professional Service

Referee/Reviewer : Probability theory and related fields (PTRF)

Representative of the department of mathematical sciences, KAIST (2019.03-2020.02)

MAS109, Introduction to linear algebra, Head Teaching Assistant, KAIST (Spring 2021)

Head Counseling Assistant, KAIST (Spring 2018-Fall 2019)

Attended Conference

Bernoulli-IMS 10th World Congress in Probability and Statistics

Virtual Congress, 2021/07/19-23

KAIST Naver Clova AI Workshop

KAIST, Daejeon, Korea, 2019/06/19

Random Matrices and Related Topics

KIAS, Seoul, Korea, 2019/05/06-10

Random Matrix Theory: Applications in the Information Era

Jagiellonian University, Kraków, Poland, 2019/04/29-05/03

2019 KMS Spring Meeting

Kangwon National University, Chuncheon, Korea, 2019/04/19-20

2018 KAIST-HKUST-NUS Joint Workshop in Mathematics : Analysis, PDE and Probability

KAIST, Daejeon, Korea, 2018/11/15-17

2018 Joint Meeting of the Korean Mathematical Society and the German Mathematical Society

COEX, Seoul, Korea, 2018/10/03-06

2018 Probability Workshop in Gyeongju

Dream center, Gyeongju, Korea, 2018/08/04-08/05

KAIST Summer School in Probability 2018

KAIST, Daejeon, Korea, 2018/07/31-08/03

Summer School on Random Matrices @ MCAIM

Ann Arbor, Michigan, USA, 2018/06/18-29

Random matrices and their applications

Kyoto University, Kyoto, Japan, 2018/05/21-25

2018 KMS Spring Meeting

Kyung Hee University, Seoul, Korea, 2018/04/20-22

2017 KMS Annual Meeting

Dankook University, Cheonan, Korea, 2017/10/27-29

CMC Foundations for Mathematical Challenges : Random Matrix Theory

KIAS, Seoul, Korea, 2017/07/20-21

KAIST Summer School in Probability 2017

KAIST, Daejeon, Korea, 2017/08/14-18

2017 KMS Spring Meeting

Chosun University, Gwangju, Korea, 2017/04/28-30

Summer school "Randomness in Physics and Mathematics: From Spin Chains to Number Theory"

Bielefeld, Germany, 2016/08/08-20

International Congress of Mathematicians (ICM)

Seoul, Korea, 2014/08/12-21

Last updated: November 25, 2023