

Min-Joo Jang

Curriculum Vitae

Personal Information

Name **Min-Joo Jang.**
Date of Birth **Dec. 4, 1987.**
Nationality **Republic of Korea.**

Contact Information

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Address **Mathematisches Institut, Universität zu Köln.**
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Education

Current **PhD Course, Cologne University.**
Advisor : Kathrin Bringmann
Feb, 2015 **Master in Mathematics, Yonsei University.**
Advisor : Jaebum Sohn
Feb, 2012 **Bachelor in Mathematics, Yonsei University.**

Professional Experience

Winter **Co-adviser for Bachelor Thesis.**
2017-18 Student: Stefan Thullen, Supervisor: Kathrin Bringmann
Summer 2017 **Co-organizer for lecture, Mathematik für Lehramtsstudierende II.**
Lecturer: Stephan Ehlen, Cologne University
Winter **Co-organizer for lecture, Mathematik für Lehramtsstudierende I.**
2016-17 Lecturer: Stephan Ehlen, Cologne University
2016-current **Co-adviser for Master Thesis.**
Student: Marcel Kraft, Supervisor: Kathrin Bringmann
2015-Current **Research Assistant, Cologne University.**
2012-2014 **Teaching Assistant, Yonsei University.**
course : Number Theory, Calculus & Vector Analysis, Advanced Calculus

Research Interests

Number Theory and Combinatorics involving partitions and modular forms

Papers and preprints

- Radial limits of the universal mock theta function g_3 (with Steffen Löbrich)
Proceedings of the American Mathematical Society, Vol. 145 (2017), 925–935.
- On spt-crank-type functions (with Byungchan Kim)
The Ramanujan Journal, Vol. 45 Issue 1 (2018), 211–225.
- Asymptotic behavior of Odd-Even partitions
The Electronic Journal of Combinatorics, Vol. 22 (3) (2017) #P3.62.
- Identities for overpartitions with even smallest parts (with Jeremy Lovejoy)
International Journal of Number Theory, accepted for publication.
- Quantum modular forms and singular combinatorial series with distinct roots of unity (with Amanda Folsom, Susie Kimport, and Holly Swisher), submitted.
- Quantum modular forms and singular combinatorial series with repeated roots of unity (with Amanda Folsom, Susie Kimport, and Holly Swisher), in preparation for submission.

Talks

- Jul. 2018 **Quantum modular forms and singular combinatorial series.**
2018 HKU Number Theory Days, HKU (Hong Kong)
- Jul. 2018 **Mock theta functions and partition-theoretic functions.**
Seminar on Pure Mathematics, HKUSK (Hong Kong)
- Jun. 2018 **Quantum modular forms and singular combinatorial series.**
Combinatory Analysis 2018, Penn State Uni. (U.S.)
- Dec. 2017 **Quantum modular forms and singular combinatorial series.**
Trends in Modular Forms Conference, NIMS (South Korea)
- Oct. 2017 **Identities for overpartitions with even smallest parts.**
Partitions/Combinatorics Seminar, Penn State Uni. (U.S.)
- Mar. 2016 **On spt-crank type functions.**
The 2016 Gainesville International Number Theory Conference, Uni. of Florida (U.S.)
- Sep. 2015 **Radial Limits of a Universal Mock Theta Function.**
Student Seminar, HKU (Hong Kong)
- Sep. 2015 **Radial Limits of a Universal Mock Theta Function.**
Discoverers avant le PhD (DISCO), MPIM Bonn (Germany)
- Nov. 2014 **Asymptotic formula for certain distinct partitions.**
Yonsei-Keio Workshop, Keio Uni. (Japan)