

# Min-Joo Jang

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## 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

2018-current **Co-adviser for Bachelor Theses.**  
Student: Stefan Thullen, Supervisor: Kathrin Bringmann  
Summer 2017 **Co-organizer for lecture, Mathematik für Lehramtsstudierende II.**  
Lecturer: Stephan Ehlen, Cologne University  
Winter 2016-17 **Co-organizer for lecture, Mathematik für Lehramtsstudierende I.**  
Lecturer: Stephan Ehlen, Cologne University  
2016-current **Co-adviser for Master Theses.**  
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

## 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 Amanda Folsom, Susie Kimport, and Holly Swisher), in preparation for submission.

## Talks

- 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, Hong Kong Uni. (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)