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 **Department of Mathematics, The University of Hong Kong**.
Pokfulam, Hong Kong

Homepage `http://www.minjoojang.com`.

Education

Mar. 2018 **Ph.D. in Mathematics**, *University of Cologne*.
Advisor : Kathrin Bringmann

Feb, 2015 **Master in Mathematics**, *Yonsei University*.
Advisor : Jaebum Sohn

Feb, 2012 **Bachelor in Mathematics**, *Yonsei University*.

Research Interests

Number Theory and Combinatorics involving integer partitions, q-series and modular forms

Professional Experience

Jul. 2018 -Current **Postdoctoral-fellows**, *The University of Hong Kong*.

Winter 2017-18 **Co-adviser for Bachelor Thesis**.
Student: Stefan Thullen, Supervisor: Kathrin Bringmann.

Summer 2017 **Co-organizer for lecture**, *Mathematik für Lehramtsstudierende II*.
Lecturer: Stephan Ehlen, University of Cologne

Winter 2016-17 **Co-organizer for lecture**, *Mathematik für Lehramtsstudierende I*.
Lecturer: Stephan Ehlen, University of Cologne

2016-17 **Co-adviser for Master Thesis**.
Student: Marcel Kraft, Supervisor: Kathrin Bringmann

2015-17 **Research Assistant**, *Universityof Cologne*.

2012-14 **Teaching Assistant**, *Yonsei University*.
course : Number Theory, Calculus & Vector Analysis, Advanced Calculus

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, Vol. 14, No. 07, (2018), 2023–2033.
- Quantum modular forms and singular combinatorial series with distinct roots of unity (with Amanda Folsom, Sam Kimport, and Holly Swisher)
  Springer Research Directions in Number Theory: Women in Numbers IV, accepted for publication.
- Quantum modular forms and singular combinatorial series with repeated roots of unity (with Amanda Folsom, Sam Kimport, and Holly Swisher), submitted for publication.

Talks

Apr. 2018 **Quantum modular forms and singular combinatorial series**.
AWM Research Symposium, Rice Uni. (U.S.)

Mar. 2019 **Interesting identities involving weighted representations of integers as sums of arbitrarily many squares**.
AMS Sectional Meeting, Uni. of Hawaii at Manoa (U.S.)

Jan. 2019 **Product formulas and theta fuctions**.
2019 q-day, KIAS (South Korea)

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.)

Feb. 2016 **Radial Limits of a Universal Mock Theta Function**.
2nd q-Day, Seoul Tech (South Korea)

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)