

# Zhengye Zhou

Email: zyzhou@tamu.edu | Gender: Female | Origin: Zhejiang, China

## Research Interest

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Integrable probability and related fields.

## EDUCATION

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### Texas A & M University

*Ph.D. in Mathematics*

Aug. 2019 – present  
College Station, TX, U.S.

### Beihang University

*B.S. in Mathematics*

Aug. 2015 – May 2019  
Beijing, China

## Publication

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- Orthogonal polynomial Stochastic Duality functions for Multi-species SEP( $2j$ ) and Multi-species IRW, preprint: arXiv:2110.07042.
- Interacting particle systems with type D symmetry and duality (with Jeffrey Kuan, Mark Landry, Andrew Lin, Andrew Park), preprint: arXiv:2011.13473.
- Hydrodynamic limit for a  $d$ -dimensional open symmetric exclusion process. *Electron. Commun. Probab.* 25 (2020), paper no. 76, 8 pp. doi:10.1214/20-ECP350. <https://projecteuclid.org/euclid.ecp/1603850828>.

## Selected Awards and Honors

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### L.F. Guseman Prize in Mathematics

*Granter: Texas A&M University*

2021

### Lechner Graduate Grant

*Granter: Texas A&M University*

2019-2020

### National Scholarship

*Granter: Ministry of Education of P.R.China*

2018

### Beihang University Outstanding Freshmen

*Granter: Beihang University*

2015

## Selected Conferences & Workshops Attended

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- 4th Annual Meeting of the SIAM Texas-Louisiana Section      November 2021, South Padre Island, Texas
- Connections and Introductory Workshop: Universality and Integrability in Random Matrix Theory and Interacting Particle Systems      August-September 2021, MSRI (online)
- International Congress on Mathematical Physics (ICMP)      August 2021, Geneva, Switzerland (online)
- Online conference on Algebraic Duality Methods in Probability      June 2021
- Asymptotic Algebraic Combinatorics Workshop      February 2020, IPAM, UCLA
- International Polytechnic Summer School      July 2018, St. Petersburg Polytech University, Russia

## Teaching & Mentoring

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- Research Assistant Fall 2021
- REU program at Texas A&M University, Mentor Summer 2021
- Engineering Mathematics II (MATH152), Teaching Assistant Spring 2021
- Numerical Analysis (MATH609), Grader Fall 2020
- Directed Reading Program (DRP) Mentor Fall 2020
- REU program at Texas A&M University, Mentor Summer 2020
- Mathematical Probability (MATH411), Grader Spring 2019
- Mathematical Probability (MATH411), Grader Fall 2019

## SKILLS

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**Languages** : Python, Matlab, Mathematica  
English, Chinese