

Lin JIU

Assistant Professor of Mathematics
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EMPLOYMENT

2023.08–Present	Assistant Professor of Mathematics	Zu Chongzhi Center, Duke Kunshan University
2024.07–Present	Adjunct of the Faculty of Graduate Studies	Dept. of Math. & Stats., Dalhousie University
2023.08–2025.12	Assistant Professor of the Practice	DKU Studies Unit, Duke Univ.
2020.08–2023.07	Lecturer in Mathematics	Zu Chongzhi Center, Duke Kunshan Univ.
	Assistant Professor of the Practice	Dept. of Global Studies, Trinity Coll., Duke Univ.
2019.09–2020.07	Research Associate	Dept. of Math. & Stats., Dalhousie University
2017.09–2019.08	Killam Postdoc Fellow	Dept. of Math. & Stats., Dalhousie University
2017.03–2017.08	Research Scientist	RICAM, Austrian Acad. Sci.
2016.06–2017.02	Postdoc Fellow	RISC, Johannes Kepler Univ.

RESEARCH INTERESTS

Symbolic Computation, Number Theory, Combinatorics, Special Functions, Information Geometry

EDUCATION

2011.08–2016.05	Tulane University, Ph.D. in Mathematics	<i>Advisor:</i> <u>Victor H. Moll</u>
2013.09–2014.02	RISC, Johannes Kepler University, Exchange Ph.D. Student	<i>Advisor:</i> <u>Carsten Schneider</u>
2008.09–2010.07	Beijing Institute of Technology, Master of Science	<i>Advisor:</i> <u>Huafei Sun</u>
2004.09–2008.06	Beijing Institute of Technology, Bachelor of Science	<i>Thesis Advisor:</i> <u>Huafei Sun</u>

GRANT AWARDED

2023.07–2025.06	WHU-DKU Joint Grant Seed	Wuhan University and Duke Kunshan University
	DKU PI of “Wuhan University-Duke Kunshan University-Dalhousie University	
	Research Platform on Combinatorics and Number Theory”	
2023.01–2024.12	Faculty Learning Community	Duke Kunshan University
	Facilitated by Center for Teaching and Learning	
2022.07–2024.06	WHU-DKU Joint Grant Seed	Wuhan University and Duke Kunshan University
	Research team member of Dr. Dongmian Zou, Duke Kunshan University	
2022.01–2022.12	Gradescope Research Project Grant	Gradescope
	Using Gradescope in math courses, facilitated by Center for Teaching and Learning, Duke Kunshan University	
2021.07–2023.06	Interdisciplinary Seed Grant	Duke Kunshan University
	Quantum algorithms for computational number theory, linear algebra, and combinatorics	
	Joint with Dr. Myung-Joong Huang, Duke Kunshan University	
2017.09–2019.08	Killam Research Fund	Killam Trust @ Dalhousie University
	Research Support for Killam Postdocs	

PUBLICATIONS

(While working on the projects, undergraduate students are marked with a *)

BOOK

- 1 H. Sun, L. Peng, Y. Cheng, D. Li, and **L. Jiu**, *Mathematical Foundations of Information Geometry*, Science Press, Beijing, 2025. ISBN: 978-7-03-080107-4.

PAPERS

- 39 **L. Jiu** and D. Wang*, On b -ary binomial coefficients with negative entries, Submitted for Publication.
- 38 S. Chern, **L. Jiu**, S. Li*, and L. Wang, Leading coefficient in the Hankel determinants related to binomial and q -binomial transforms, *Adv. Appl. Math.* **176** (2026), Article 103051.
- 37 **L. Jiu** and L. Peng, Information geometry and alpha-parallel prior of the beta-logistic distribution, *Comm. Statist. Theory Methods.* **54** (2025), 3292–3306.
- 36 S. Chern, **L. Jiu**, and I. Simonelli, A central limit theorem for a card shuffling problem, *J. Combin. Theory Ser. A* **214** (2025), Article 106048.
- 35 **L. Jiu** and Y. Li*, Hankel determinants of certain sequences of Bernoulli polynomials: A direct proof of an inverse matrix entry from Statistics, *Contrib. Discrete Math.* **19** (2024), 64–84.
- 34 Q. Chen, S. Chern, and **L. Jiu**, Multi-headed lattices and Green functions, *J. Phys. A: Math. Theor.* **57** (2024) Article 465204.
- 33 S. Chern and **L. Jiu**, Hankel determinants and Jacobi continued fractions for q -Euler numbers, *C. R. Math. Acad. Sci. Paris* **362** (2024), 203–216.
- 32 K. Dilcher and **L. Jiu**, Hankel determinants of shifted sequences of Bernoulli and Euler numbers, *Contrib. Discrete Math.* **18** (2023), 146–175.
- 31 Z. Bradshaw, I. Gonzalez, **L. Jiu**, V. H. Moll, and C. Vignat, Compatibility of the method of brackets with classical integration rules, *Open Math.* **21** (2023), Article number: 20220581.
- 30 **L. Jiu** and D. Y. H. Shi, Moments and cumulants on identities for Bernoulli and Euler numbers, *Math. Reports* **24** (2022), 643–650.
- 29 **L. Jiu**, I. Simonelli, and H. Yue*, Loop Decompositions of Random Walks and Nontrivial Identities of Bernoulli and Euler Polynomials, *Integers* **22** (2022), A91.
- 28 K. Dilcher and **L. Jiu**, Hankel Determinants of sequences related to Bernoulli and Euler Polynomials, *Int. J. Number Theory* **18** (2022), 331–359.
- 27 K. Dilcher and **L. Jiu**, Orthogonal polynomials and Hankel determinants for certain Bernoulli and Euler polynomials, *J. Math. Anal. Appl.* **497** (2021), Article 124855.
- 26 I. Gonzales, **L. Jiu**, and V. H. Moll, An extension of the method of brackets. Part 2, *Open Math.* **18** (2020), 983–955.
- 25 **L. Jiu** and C. Koutschan, Calculation and properties of zonal polynomials, *Math. Comput. Sci.* **14** (2020), 623–640.
- 24 N. Takayama, **L. Jiu**, S. Kuriki, and Y. Zhang, Computations of the Expected Euler Characteristic for the Largest Eigenvalue of a Real Wishart Matrix, *J. Multivariate Anal.* **179** (2020), Article 104642.
- 23 **L. Jiu**, C. Vignat, and T. Wakhare, Analytic Continuation for Multiple Zeta Values using Symbolic Representations, *Int. J. Number Theory* **16** (2020), 579–602.
- 22 **L. Jiu** and C. Vignat, Connection coefficients for higher-order Bernoulli and Euler polynomials: a random walk approach, *Fibonacci Quart.* **57** (2019), 84–95.
- 21 **L. Jiu** and D. Y. H. Shi, Matrix representation for multiplicative nested sums, *Colloq. Math.* **158** (2019), 183–194.
- 20 **L. Jiu** and D. Y. H. Shi, Orthogonal polynomials and connection to generalized Motzkin numbers for higher-order Euler polynomials, *J. Number Theory* **199** (2019), 389–402.
- 19 I. Gonzalez, K. Kohl, **L. Jiu**, and V. H. Moll, The method of brackets in experimental mathematics, *Frontiers of Orthogonal Polynomials and q -Series*, Z. Nashed and X. Li eds., World Scientific Publishers, 2018.
- 18 **L. Jiu**, V. H. Moll, and C. Vignat, A symbolic approach to multiple zeta values at the negative integers, *J. Symbolic Comput.* **84** (2018), 1–13.
- 17 I. Gonzales, K. Kohl, **L. Jiu**, and V. H. Moll, An extension of the method of brackets. Part 1, *Open Math.* **15** (2017), 1181–1211.
- 16 **L. Jiu**, Integral representations of equally positive integer-indexed harmonic sums at infinity, *Research in Number Theory* **3** (2017), Article 3:10.
- 15 C. Li, E. Zhang, **L. Jiu**, and H. Sun, Optimal control on special Euclidean group via natural gradient descent algorithm, *Sci. China Inf. Sci.* **59** (2016), Article: 112203.
- 14 I. Gonzalez, **L. Jiu**, and V. H. Moll, Pochhammer symbol with negative indices. A new rule for the method of brackets, *Open Math.* **14** (2016), 681–686.
- 13 T. Amdeberhan, A. Dixit, X. Guan, **L. Jiu**, A. Kuznetsov, V. H. Moll, and C. Vignat, The integrals in Gradshteyn and Ryzhik. Part 30: trigonometric functions, *Scientia Series A: Mathematical Sciences* **27** (2016), 47–74.
- 12 T. Amdeberhan, A. Dixit, X. Guan, **L. Jiu**, V. H. Moll, and C. Vignat, A series involving Catalan numbers. Proofs and demonstrations, *Elem. Math.* **71** (2016), 109–121.
- 11 **L. Jiu** and C. Vignat, On binomial identities in arbitrary bases, *J. Integer Seq.* **19** (2016), Article 16.5.5.

- 10 **L. Jiu**, V. H. Moll, and C. Vignat, A symbolic approach to some identities for Bernoulli-Barnes polynomials, *Int. J. Number Theory* **12** (2016), 649–662.
- 9 A. Dixit, **L. Jiu**, V. H. Moll, and C. Vignat, The finite Fourier transform of classical polynomials, *J. Aust. Math. Soc.* **98** (2015), 145–160.
- 8 T. Amdeberhan, A. Dixit, X. Guan, **L. Jiu** and V. H. Moll, The unimodality of a polynomial coming from a rational integral. Back to the original proof, *J. Math. Anal. Appl.* **420** (2014), 1154–1166.
- 7 A. Byrnes*, **L. Jiu**, V. H. Moll, and C. Vignat, Recursion rules for the hypergeometric zeta functions, *Int. J. Number Theory* **10** (2014), 1761–1782.
- 6 **L. Jiu**, V. H. Moll, and C. Vignat, Identities for generalized Euler polynomials, *Integral Transforms Spec. Funct.* **25** (2014), 777–789.
- 5 Z. Zhang, H. Sun, **L. Jiu**, and L. Peng, A natural gradient algorithm for stochastic distribution systems, *Entropy* **16** (2014), 4338–4352.
- 4 F. Zhang, H. Sun, **L. Jiu**, and L. Peng, The arc length variational formula on the exponential manifold, *Math. Slovaca* **63** (2013), 1101–1112.
- 3 L. Peng, H. Sun, and **L. Jiu**, The geometric structure of the Pareto distribution, *Bol. Asoc. Mat. Venez.* **14** (2007), 5–13.
- 2 **L. Jiu** and H. Sun, On minimal homothetical hypersurfaces, *Colloq. Math.* **109** (2007), 239–249.
- 1 X. Wang and **L. Jiu**, Characterizing hypersurfaces of generalized rotation through its normal lines, *Journal of Ningde Normal University (Natural Science)* **02** (2006), 117–119.

ACADEMIC TALKS

- 49 **Hankel Determinants of Sequences Related to Bernoulli Polynomials, Euler Polynomials, and q -Series**
Invited Seminar Talk, Department of Mathematics and Statistics, Dalhousie University, Halifax, NS, Canada, Feb. 11, 2026.
- 48 **Hankel Determinants and Big q -Jacobi Polynomials for q -Euler Numbers**
The Third Joint SIAM/CAIMS Annual Meetings (AN25), Montréal, QC, Canada, July 28—Aug. 1, 2025.
- 47 **Examples of Computer Proofs: From Elementary to Recent Ones**
Invited Honours Seminar Talk, Department of Mathematics and Statistics, Dalhousie University, Halifax, NS, Canada, Jan. 15, 2025.
- 46 **Multi-headed Lattices and Green Functions**
Invited Seminar Talk, Department of Mathematics and Statistics, Dalhousie University, Halifax, NS, Canada, Oct. 8, 2024.
- 45 **q -Analogue on Hankel Determinants: the q -Euler Numbers and the q -Binomial Transform**
Canadian Number Theory Association XVI, Fields Institute, Toronto, ON, Canada, June 10–14, 2024.
- 44 **Shuffle to One, Shuffle to Normal**
Number Theory Seminar, Department of Mathematics and Statistics, Dalhousie University, Halifax, NS, Canada, Jan. 31, 2024.
- 43 **Random Walk Models for Identities Involving Bernoulli and Euler Polynomials**
Number Theory Seminar, Department of Mathematics and Statistics, Dalhousie University, Halifax, NS, Canada, Mar. 6, 2023.
- 42 **Random Walk Model on Finite Number of Sites**
Seminar, School of Mathematics, Anhui University, Online, Oct. 19, 2022.
- 41 **Bernoulli Symbol and Multiple Zeta Function at Non-negative Integers**
The First International Conference on Multiple Zeta Values and Related Topics, Online, Aug. 08–09, 2022.
- 40 **Hankel Determinants of Certain Sequences of Bernoulli and Euler Polynomials**
Seminar, Department of Mathematics, Zhejiang Sci-Tech University, Online, June 12, 2022.
- 39 **Bernoulli and Euler Symbols: Umbral Calculus, Random Variables, and Multiple Zeta Values**
Duke Kunshan University-Shanghai Jiao Tong University Joint Workshop for Mathematics and Data Science, Shanghai, P. R. China, Jan. 5, 2022.
- 38 **Random Walk Models for Non-trivial Identities Involving Bernoulli and Euler Polynomials of Higher-orders**
Suzhou Area Youth Mathematicians 2nd Annual Workshop, Soochow University, Kunshan, Suzhou, Jiangsu Province, P. R. China, Sept. 25–26, 2021.
- 37 **Random Walks and Identities Involving Bernoulli and Euler Polynomials of Higher-order**
Seminar, Institute of Statistics and Big Data, Renmin University of China, Beijing, P. R. China, June 18, 2021.
- 36 **Examples on Computer Proofs**

- Seminar, Wuhan University, Wuhan, Hubei Province, P. R. China, May 28, 2021.*
- 35 **Hankel Determinant of Sequences Related to Bernoulli and Euler Polynomials**
DKU-WHU Math and Stat Academic Conference, Wuhan University, Wuhan, Hubei Province, P. R. China, May 27, 2021.
 - 34 **Hankel Determinant on Sequences Related to Bernoulli and Euler Polynomials**
Suzhou Area Youth Mathematicians 1st Annual Workshop, Duke Kunshan University, Kunshan, Suzhou, Jiangsu Province, P. R. China, Nov. 14–15, 2020.
 - 33 **Three Examples on Computer Proofs**
Zu Chongzhi Colloquium Series, Duke Kunshan University, Kunshan, Suzhou, P. R. China, Nov. 6, 2020.
 - 32 **Introduction to Four Symbolic Integration Methods: Two Examples**
Number Theory Seminar, Department of Mathematics and Statistics, Dalhousie University, Halifax, NS, Canada, Sept. 23, 2019
 - 31 **On b -ary Binomial Coefficients**
Number Theory Seminar, Department of Mathematics and Statistics, Dalhousie University, Halifax, NS, Canada, Sept. 16, 2019
 - 30 **Orthogonal Polynomials for Higher-order Euler Polynomials**
15th International Symposium on Orthogonal Polynomials, Special Functions and Applications, Hagenberg, Austria, July 22–26, 2019.
 - 29 **On Harmonic Sums: Integral and Matrix Representations with Connections to Partition-theoretic Generalization of the Riemann Zeta-function and Random Walks**
Analytic and Combinatorial Number Theory: The Legacy of Ramanujan (A conference in honor of Bruce C. Berndt's 80th birthday), University of Illinois at Urbana-Champaign, Urbana, IL, U. S. A., June 6–9, 2019.
 - 28 **Random Walk Approaches to Identities on Higher-order Bernoulli and Euler Polynomials**
American Mathematical Society Spring Southeastern Sectional Meeting, Auburn University, Auburn, AL, U. S. A., Mar. 15–17, 2019.
 - 27 **Random Walk & Identities**
Number Theory Seminar, Department of Mathematics and Statistics, Dalhousie University, Halifax, NS, Canada, Feb. 25, 2019
 - 26 **Matrix Representation for Multiplicative Nested Sums**
2019 Joint Mathematics Meetings, Baltimore, MD, U. S. A., Jan. 16–19, 2019.
 - 25 **Orthogonal Polynomials for Bernoulli and Euler Polynomials**
Number Theory Seminar, Department of Mathematics and Statistics, Dalhousie University, Halifax, NS, Canada, Jan. 7, 2019
 - 24 **Three Examples of Computer Proofs of Combinatorial Results**
Honours Seminar, Department of Mathematics and Statistics, Dalhousie University, Halifax, NS, Canada, Oct. 17, 2018
 - 23 **Matrix Representation for Multiplicative Nested Sums**
Number Theory Seminar, Department of Mathematics and Statistics, Dalhousie University, Halifax, NS, Canada, Sept. 21, 2018.
 - 22 **Bernoulli Symbol and Sum of Powers**
6th International Congress on Mathematical Software, University of Notre Dame, Notre Dame, IN, U. S. A., July 24–27, 2018.
 - 21 **Random Walks and Identities for High-order Bernoulli and Euler Polynomials**
18th International Conference on Fibonacci Numbers and Their Applications, Dalhousie University, Halifax, NS, Canada, July 1–8, 2018.
 - 20 **Matrix Representations for Bernoulli and Euler Polynomials**
2018 Canadian Mathematical Society Summer Meeting, University of New Brunswick, Fredericton, NB, Canada, June 1–4, 2018.
 - 19 **Two Sequences Related to Bernoulli and Euler Numbers**
Number Theory Seminar, Department of Mathematics and Statistics, Dalhousie University, Halifax, NS, Canada, May 30, 2018.
 - 18 **Hidden Walks**
Number Theory Seminar, Department of Mathematics and Statistics, Dalhousie University, Halifax, NS, Canada, Feb. 26, 2018.
 - 17 **Introduction to Zonal Polynomials**
Number Theory Seminar, Department of Mathematics and Statistics, Dalhousie University, Halifax, NS, Canada, Jan. 22, 2018.
 - 16 **The Probabilistic and Combinatorial Interpretations of the Bernoulli Symbol**

- 2017 *Canadian Mathematical Society Winter Meeting*, University of Waterloo, Waterloo, ON, Canada, Dec. 8–11, 2017.
- 15 **Bernoulli Symbol on Multiple Zeta Values at Negative Integers**
23rd Conference on Applications of Computer Algebra (Commemorating the heritage of Jonathan Michael Borwein),
 Jerusalem College of Technology, Jerusalem, Israel, July 17–21, 2017.
 - 14 **Bernoulli Symbol \mathcal{B} : from Umbral Calculus to Random Variable and Combinatorics**
Number Theory Seminar, Department of Mathematics and Statistics, Dalhousie University, Halifax, NS, Canada, Oct.
 13, 2017.
 - 13 **Visualization of Bernoulli Numbers**
Colloquium, Department of Mathematics and Statistics, Dalhousie University, Halifax, NS, Canada, Oct. 12, 2017.
 - 12 **On Bernoulli Symbol \mathcal{B}**
Klagenfurt-Linz-Wien Workshop, Riefnitz, Austria, May 3–6, 2017.
 - 11 **The Method of Brackets (MoB) and Integrating by Differentiating (IbD) Method**
Laboratoire des Signaux et Systemès, Université Paris Sud XI, Orsay, France, Dec. 9, 2016.
 - 10 **“Random Walks” for Harmonic Sums**
SFB Statusseminar, Strobl, Austria, Nov. 27–30, 2016.
 - 9 **A Hot Pot**
Algorithmic Combinatorics Seminar, Research Institute for Symbolic Computations, Johannes Kepler University,
 Hagenberg im Mühlkreis, Austria, Oct. 5, 2016.
 - 8 **On Binomial Identities in Arbitrary Bases**
Beijing Key Laboratory on Mathematical Characterization, Analysis and Applications of Complex Information, Beijing
Institute of Technology, Beijing, China, July 26, 2016.
 - 7 **Random Walk: A Probabilistic and Geometric Approach to Number Theory**
International Conference on Mathematical Characterization, Analysis and Applications of Complex Information, Beijing
 Institute of Technology, Beijing, China, July 19–20, 2016.
 - 6 **The Method of Brackets**
5th International Congress on Mathematical Software, The Zuse Institute Berlin, Berlin, Germany, July 11–14, 2016.
 - 5 **The Method of Brackets**
Algorithmic Combinatorics Seminar, Research Institute for Symbolic Computations, Johannes Kepler University,
 Hagenberg im Mühlkreis, Austria, June 22, 2016.
 - 4 **Binomial Identities in Arbitrary Bases**
Graduate Students Colloquium, Department of Mathematics, Tulane University, New Orleans, LA., U. S. A., Mar. 8,
 2016.
 - 3 **On Bernoulli Symbol \mathcal{B} and Its Applications**
Center for Combinatorics, Nankai University, Tianjin, China, July 8, 2015.
 - 2 **Recursion Rules for the Hypergeometric Zeta Functions**
Midwest Number Theory Conference for Graduate Students and Recent PhDs, X, University of Illinois at
 Urbana-Champaign, Urbana, IL, U. S. A., June 3–4, 2014.
 - 1 **Implementation of an Algorithm on Converting Sums into Nested Sums**
Laboratoire des Signaux et Systemes, Université Paris Sud XI, Orsay, France, Jan. 8, 2014.

HONORS AND AWARDS

2016	Tea Doctor (for organizing Tea Time)	Dept. of Math., Tulane University
2015	Tea Master (for organizing Tea Time)	Dept. of Math., Tulane University
2014	Excellence in Mathematics	Dept. of Math., Tulane University
2013	Excellent Graduate Student Teacher	Dept. of Math., Tulane University
2008	Outstanding Graduates	Beijing Institute of Technology
2007	National Scholarship	Department of Education, P. R. China
2006	China Aerospace Science and Technology Corporation Scholarship (CASC), 2nd Prize	CASC, P. R. China

TEACHING EXPERIENCE

TEACHING SUMMARY 29 regular course sections (incl. 5 scheduled), 1 mini-term, and 6 independent study courses across **Duke Kunshan Univ. (DKU)**, **Dalhousie Univ. (Dal)**, and **Tulane Univ. (TU)**.

DKU	MATH101A—Introductory Calculus I	2026 Fall (scheduled)	
	MATH101B—Introductory Calculus II	2027 Spring (scheduled)	
	MATH105—Calculus	2020–2023 (5 sections)	
	MATH201—Multivariable Calculus	2026 Fall (scheduled), 2020–2022 (3 sections)	
	MATH202—Linear Algebra	2026 Fall (scheduled), 2023 Fall	
	MATH205—Probability and Statistics	2023 Spring, 2021 Spring	
	MATH301—Advanced Introduction to Probability	2021–2023 (4 sections)	
	MATH306—Number Theory	2022 Fall, 2021 Fall	
	MATH307—Complex Analysis	2027 Spring (scheduled), 2024 Fall	
Dal	MATH1030—Matrix Theory and Linear Algebra I	2019 Summer	
	MATH3080—Complex Variables	2019 Winter	
TU	MATH1160—Long Calculus II	2014 Summer, 2016 Spring	
	MATH1210—Calculus I	2015 Spring	
	MATH1310—Consolidated Calculus	2015 Fall	
Mini-term & Reading/Independent Study Courses			
Dal	MATH6200—Integer Partitions and q -Series	2025 Winter	
DKU	MINITERM102—Experimental Mathematics and Symbolic Computation		2023 Spring
	INDSTU391—Introduction to Algebraic Geometry	2022 Fall	
	INDSTU391—Variational Quantum Algorithms	2022 Spring	
	INDSTU391—Riemann Zeta-Function	2021 Fall	
	INDSTU391—Quantum Algorithm	2021 Fall	
	INDSTU391—Combinatorics	2021 Fall	

ACADEMIC SERVICES AND MEMBERSHIPS

- 2026 Organizer of the mini-symposium *Special Functions with Applications in Number Theory and Combinatorics* at The SIAM Annual Meetings, July 6–10, 2026, Cleveland, OH, U.S.A.
- 2025– Reviewer for Mathematical Reviews @ AMS
- 2025 Organizer of the mini-symposium *Special Functions with Applications in Number Theory and Combinatorics* at The Third Joint SIAM/CAIMS Annual Meetings, July 27–Aug. 1, 2025, Montreal, QC, Canada
- 2014– Reviewer for journals including: Journal of Number Theory, The Ramanujan Journal, Journal of Difference Equations and Applications, etc.

DEPARTMENTAL AND UNIVERSITY SERVICE

2021–	Organizer of the Discrete Math Seminar	Duke Kunshan University
2024	Member of 2025 Undergraduate Recruitment & Admissions Evaluation	Duke Kunshan University
2017–2020	Organizer of the Number Theory Seminar	Dalhousie University
2012–2016	Organizer of the Tee Time	Tulane University

STUDENT MENTORING, ADVISING, AND RESEARCH ACTIVITIES

UNDERGRADUATE ACADEMIC ADVISOR @ DUKE KUNSHAN UNIVERSITY

Class of Number of Students Names

2022	1	Ziang Zhou
2023	6	Heng Yue, Junyu Shi, Lezhen Qin, Mengfan Gong, Yushan Gu, Shi Wang
2024	3	Jeff Ulmasov, Jing Gu, Yuekang Li
2025	1	Jiaqi Wang
2026	3	Baoguanyan Kang, Dalia Guerrero Flores, Lei Wu,
2027	4	Jinggege Li, Rui Ling, Shengjie Bai, Yunjie Guo
2028	5	Binghan Cheng, Feiyang Zhong, Rustam Safaev, Shengyu Xu, Yihang Yin
2029	2	Zidi Gao, Wangzi Ding
TOTAL	25	

UNDERGRADUATE SIGNATURE WORK (SW)¹ (\cong HONOR THESIS) MENTOR @ DUKE KUNSHAN UNIVERSITY

¹<https://signature-work.dukekunshan.edu.cn/signature-work-overview/>

Class of Number of Projects Names

2023	7	Heng Yue, Junyu Shi, Lezhen Qin, Mengfan Gong, Siyuan Wu, Ye Li, Youzhang He
2024	3	Hongkai Zhu, Matilde Molinari Giglietti, Shuhan Li
TOTAL	10	

UNDERGRADUATE STUDENT RESEARCH PROJECTS

<i>Year</i>	<i>Student(s)</i>	<i>Project(s)</i>	<i>Result/Comments</i>
2021	Heng Yue Ye Li	Loop Decomposition of Random Walks Hankel Determinants on Some sequences	[29] in the Publication section [35] in the Publication section
2022	Siyuan Wu Duanduan Wang	The Method of Brackets b -ary Related Sequences	Mathematica Package [38] in the Publication section
2023	Shuhan Li Hongkai Zhu	Hankel Determinants and Continued Fractions Weakly Increasing Trees on a Multiset	[39] in the Publication section Mathematica Package
2024	Jonah Barrington Julius Frizzell	On Cyclotomic Polynomials Factorization of Large Primes	Co-mentored with K. Dilcher @ Dalhousie University

RELEVANT SKILLS

Language: Mandarin (native), English (fluent)

Computer: Mathematica, SageMath, Python, Maple, \LaTeX , \LyX

Packages: Zonal.sage <https://jiulin90.github.io/Packages/Zonal.sage>
BNE.sage <https://jiulin90.github.io/Packages/BNE.sage>