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加拿大戴尔豪斯大学●数学与统计系●博士后
Killam Postdoctoral Fellow, Department of Mathematics and Statistics,
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基本信息

性别	出生年月	籍贯	微信号	电子邮箱:
男	1985.11	天津	Lin32491708	Lin.Jiu@dal.ca

学术岗位经历（博士后经历）

2017.09–2020.08 (预期)	加拿大戴尔豪斯大学[1]数学与统计系 *(Department of Mathematics and Statistics, Dalhousie University)*	导师: *Karl Dilcher*
2017.03–2017.08	奥地利科学院约翰拉东计算与应用数学研究所[2] (Johann Radon Institute for Computational and Applied Mathematics, Austrian Academy of Sciences)	导师: *Christoph Koutschan*
2016.06–2017.02	奥地利约翰开普勒大学符号运算研究所[3] (Research Institute for Symbolic Computation, Johannes Kepler University)	导师: *Peter Paule* 和 *Carsten Schneider*

教育经历

2011.08–2016.05	美国杜兰大学[4](Tulane University)数学博士	导师: *Victor Hugo Moll*
2013.09–2014.02	奥地利约翰开普勒大学符号运算研究所（同上[3]）博士交换生	导师: *Carsten Schneider*
2008.09–2010.07	北京理工大学 理学硕士 数学专业	导师:孙华飞
2004.09–2008.06	北京理工大学 理学学士 数学专业	毕业论文指导教师:孙华飞

研究方向

伯努利与欧拉多项式，符号积分，特殊函数，解析数论，组合数学

学术论文

30. **L. Jiu**, V. H. Moll, and C. Vignat, Compatibility of the method of brackets with classical integration methods, 审稿中.

29. **L. Jiu** and D. Y. H. Shi, On *b*-ary binomial coefficients with negative entries, 审稿中.

28. Y. Li, B. Li, H. Sun, and **L. Jiu**, Application of entropy in Riemannian manifolds, 审稿中.

27. Y. Li, B. Li, H. Sun, and **L. Jiu**, Matrix geometric means and uncertainty relation, 审稿中.

26. N. Takayama, **L. Jiu**, S. Kuriki, and Y. Zhang, Computations of the expected Euler characteristic for the largest eigenvalue of a real Wishart matrix, 已接收 *J. Multivariate Anal.*

25. **L. Jiu** and C. Koutschan, Calculation and properties of zonal polynomials, 已接收 *Math. Comput. Sci.*

24. **L. Jiu** and D. Y. H. Shi, Moments and cumulants on identities for Bernoulli and Euler numbers, 已接收 *Math. Rep. (Bucur.)*

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 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. 王晓洁 酒霖, 广义旋转超曲面的法线刻画, 宁德师范学院学报(自然科学版) **02** (2006), 117–119.

学术报告

- **Orthogonal Polynomials for Higher-order Euler Polynomials**
  15th International Symposium on Orthogonal Polynomials, Special Functions and Applications
  2019年7月22日至26日, 奥地利哈根贝格, 符号运算研究所.

- **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)
  2019年6月6日至6月9日, 美国伊利诺伊州, 伊利诺伊大学厄巴纳–香槟分校.

- **Random Walk Approaches to Identities on Higher-order Bernoulli and Euler Polynomials**
  American Mathematical Society Spring Southeastern Sectional Meeting
  2019年3月15日至3月17日, 美国阿拉巴马州奥本市, 奥本大学.

- **Matrix Representation for Higher-Order Euler Polynomials**
  2019 Joint Mathematics Meetings
  2019年1月16日至1月19日, 美国马里兰州巴尔的摩市.

- **Bernoulli Symbol and Sum of Powers**
  6th International Congress on Mathematical Software
  2018年7月24日至7月28日, 美国印第安纳州圣母市, 圣母大学.

- **Random Walks and Identities for High-order Bernoulli and Euler Polynomials**
  18th International Conference on Fibonacci Numbers and Their Applications
  2018年7月1日至7月8日, 加拿大新斯科舍省哈利法克斯, 戴尔豪斯大学.
- **Matrix Representations for Bernoulli and Euler Polynomials**
  2018 Canadian Mathematical Society Summer Meeting
  2018年6月1日至6月4日, 加拿大新不伦瑞克省弗雷瑞克登, 新不伦瑞克大学.
- **The Probabilistic and Combinatorial Interpretations of the Bernoulli Symbol**
  2017 Canadian Mathematical Society Winter Meeting
  2017年12月8日至12月11日, 加拿大安大略省滑铁卢, 滑铁卢大学.
- **Bernoulli Symbol on Multiple Zeta Values at Negative Integers**
  23rd Conference on Applications of Computer Algebra (Commemorating the heritage of Jonathan Michael Borwein)
  2017年7月17日至7月21日, 以色列耶路撒冷, 耶路撒冷技术学院.
- **On Bernoulli Symbol $\mathcal{B}$**
  Klagenfurt-Linz-Wien Workshop
  2017年5月3日至5月6日, 奥地利赖弗尼茨.
- **The Method of Brackets (MoB) and Integrating by Differentiating (IbD) Method**
  Laboratoire des Signaux et Systemès, Université Paris Sud XI
  2016年12月9日, 法国奥尔赛, 巴黎十一大学.
- **"Random Walks" for Harmonic Sums**
  SFB Statusseminar
  2016年11月27日至11月30日, 奥地利施特罗布尔.
- **On Binomial Identities in Arbitrary Bases**
  北京理工大学复杂信息数学表征分析与应用实验室
  2016年7月26日, 北京.
- **Random Walk: A Probabilistic and Geometric Approach to Number Theory**
  International Conference on Mathematical Characterization, Analysis and Applications of Complex Information
  2017年7月19日至7月20日, 北京, 北京理工大学.
- **The Method of Brackets**
  5th International Congress on Mathematical Software
  2017年7月11日至7月14日, 德国柏林, 祖斯研究院.
- **On Bernoulli Symbol $\mathcal{B}$ and Its Applications**
  南开大学组合数学中心
  2015年7月8日, 天津.
- **Recursion Rules for the Hypergeometric Zeta Functions**
  Midwest Number Theory Conference for Graduate Students and Recent PhDs, X
  2014年6月3日至6月4日, 美国伊利诺伊州, 伊利诺伊大学厄巴纳–香槟分校.
- **Implementation of an Algorithm on Converting Sums into Nested Sums**
  Laboratoire des Signaux et Systemes, Université Paris Sud XI
  2014年1月8日, 法国奥尔赛, 巴黎十一大学.

所获荣誉与奖励

2013–2014	数学科研奖 (Excellence in Mathematics)
2012–2013	优秀教学奖 (Excellent Graduate Student Teacher)
2008	北京理工大学优秀毕业生
2007	国家奖学金
2006	中国航天科技集团公司CASC二等奖学金

教学经历

2019 暑期	Matrix Theory and Linear Algebra I	@加拿大戴尔豪斯大学([1])
2019 春季	Introduction to Complex Variables	@加拿大戴尔豪斯大学([1])
2016 春季	Long Calculus II	@美国杜兰大学([4])
2015 秋季	Consolidated Calculus	@美国杜兰大学
2015 春季	Long Calculus I	@美国杜兰大学
2014 暑期	Long Calculus II	@美国杜兰大学

其他技能

语言：英语(流畅)

计算机：SageMath, Python, Mathematica, Maple, LyX, LaTeX

- 程序包：
Zonal.sage	`https://jiulin90.github.io/Packages/Zonal.sage`
BNE.sage	`https://jiulin90.github.io/Packages/BNE.sage`