

# 刘纪彩 个人简介

## 一、 基本信息

姓 名： 刘纪彩

性 别： 男

出生年月： 1984 年 12 月

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## 二、 学习经历

2004/09—2008/07 山东大学 本科

2008/09—2011/06 华东师范大学 硕士

2014/09—2017/06 华东师范大学 博士

## 三、 研究方向

组合数学，数论与特殊函数论

## 四、 基金项目

1. 带  $p$ -adic Gamma 函数的组合余式研究，国家自然科学基金青年项目 (11801417)，22 万元，2019/01—2021/12，主持

## 五、 发表论文（SCI 收录）

1. **Ji-Cai Liu**, Congruences on sums of super Catalan numbers, *Results Math.*, to appear.
2. **Ji-Cai Liu**, Semi-automated proof of supercongruences on partial sums of hypergeometric series, *J. Symbolic Comput.*, to appear.
3. Victor J.W. Guo, **Ji-Cai Liu**,  $q$ -Analogues of two Ramanujan-type formulas for  $1/\pi$ , *J. Difference Equ. Appl.* 24 (2018), 1368–1373.
4. **Ji-Cai Liu**, Supercongruences involving  $p$ -adic Gamma functions, *Bull. Aust. Math. Soc.* 98 (2018), 27–37.
5. **Ji-Cai Liu**, Long Li, Su-Dan Wang, Some congruences on Delannoy numbers and Schröder numbers, *Int. J. Number Theory* 14 (2018), 2035–2041.
6. **Ji-Cai Liu**, A generalized supercongruence of Kimoto and Wakayama, *J. Math. Anal. Appl.* 467 (2018), 15–25.
7. **Ji-Cai Liu**, Some supercongruences on truncated  ${}_3F_2$  hypergeometric series, *J. Difference Equ. Appl.* 24 (2018), 438–451.
8. **Ji-Cai Liu**, Some finite generalizations of Gauss’s square exponent identity, *Rocky Mountain J. Math.* 47 (2017), 2723–2730.
9. **Ji-Cai Liu**, Jichun Liu, Some Extensions of the Prabhu-Srivastava Theorem Involving the  $(p; q)$  Gamma Function, *Filomat* 31 (2017), 4507–4513.
10. **Ji-Cai Liu**, A  $p$ -adic supercongruence for truncated hypergeometric series  ${}_7F_6$ , *Results Math.* 72 (2017), 2057–2066.
11. **Ji-Cai Liu**, Proof of some divisibility results on sums involving binomial coefficients, *J. Number Theory* 180 (2017), 566–572.
12. **Ji-Cai Liu**, Some finite generalizations of Euler’s pentagonal number theorem, *Czechoslovak Math. J.* 142 (2017), 525–531.
13. **Ji-Cai Liu**, Congruences for truncated hypergeometric series  ${}_2F_1$ , *Bull. Aust. Math. Soc.* 96 (2017), 14–23.
14. **Ji-Cai Liu**, Wilberd van der Kallen, Proof of Sun’s conjectures on Schröder-like numbers, *Int. J. Number Theory* 13 (2017), 1627–1638.
15. Victor J.W. Guo, **Ji-Cai Liu**, Proof of a congruence on sums of powers of  $q$ -binomial coefficients, *Int. J. Number Theory* 13 (2017), 1571–1577.
16. **Ji-Cai Liu**, Some congruences for Schröder type polynomials, *Colloq. Math.* 146 (2017), 187–195.
17. **Ji-Cai Liu**, On two conjectural supercongruences of Apagodu and Zeilberger, *J. Difference Equ. Appl.* 22 (2016), 1791–1799.
18. **Ji-Cai Liu**, A supercongruence involving Delannoy numbers and Schröder numbers, *J. Number Theory* 168 (2016), 117–127.
19. Victor J.W. Guo, **Ji-Cai Liu**, Proof of some conjectures of Z.-W. Sun on the divisibility of certain double sums, *Int. J. Number Theory* 12 (2016), 615–623.
20. Victor J.W. Guo, **Ji-Cai Liu**, Proof of a conjecture of Z.-W. Sun on the divisibility of a triple sum, *J. Number Theory* 156 (2015), 154–160.

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