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教授

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教育背景

Brock University 访问学者 (2014.02–2015.02)
南开大学组合数学中心访问学者 (2005.04–2006.03)
大连理工大学理学博士 (2001.09–2006.06)
曲阜师范大学理学学士 (1997.09–2001.06)

研究领域

生物信息学
深度学习
组合数论

代表性成果

论文类:

- [1] **Jujuan Zhuang***, Wanquan Gao, Xinru Huang, Guoyan Chen*, MGCN-PolyA: An integrated computational framework for predicting Poly(A) signals with multiscale gated convolutional networks, *Current Bioinformatics*, 20(7), 2025, e15748936289520.
- [2] **Jujuan Zhuang**, Xinru Huang, Shuhan Liu, Wanquan Gao, Rui su, Kexin Feng*, MulTFBS: A Spatial-Temporal Network with Multichannels for Predicting Transcription Factor Binding Sites, *Journal of Chemical Information and Modeling*, 2024, 64 (10) , 4322-4333.
- [3] **Jujuan Zhuang**, Wanquan Gao, Rui Su, EnAMP: A novel deep learning ensemble antibacterial peptide recognition algorithm based on multi-features, *Journal of Bioinformatics and Computational Biology*, 2024 Feb 26:2450001.
- [4] Tianci Zhang, Zihao Qi, Shikai Qiao, **Jujuan Zhuang**, GSASVM-RBPs: Predicting miRNA-binding protein sites with aggregated multigraph neural networks and an SVM, *Network Modeling Analysis in Health Informatics and Bioinformatics* (2024) 13:53.
- [5] **Jujuan Zhuang**, Kexin Feng*, Xinyang Teng and Cangzhi Jia* , GNet: An integrated context-aware neural framework for transcription factor binding signal at single nucleotide resolution prediction, *Mathematical Biosciences and Engineering*, 20(9): 15809–15829.

- [6] Rui Su, **Jujuan Zhuang***, Shuhan Liu, Di Liu, Kexin Feng, EnILs: A general ensemble computational approach for predicting inducing peptides of multiple interleukins, *Journal of Computational Biology*, 2023 Dec; 30(12):1289-1304.
- [7] Pengfei Xie, **Jujuan Zhuang***, Geng Tian, Jialiang Yang*, Emvirus: An embedding-based neural framework for human-virus protein-protein interactions prediction, *Biosafety and Health*, 2023 Jun; 5(3):152-158.
- [8] Junlin Xu, Lingyu Cui, **Jujuan Zhuang**, Yajie Meng, Pingping Bing, Binsheng He, Geng Tian, Choi Kwok Pui, Taoyang Wu, Bing Wang*, Jialiang Yang* . Evaluating the performance of dropout imputation and clustering methods for single-cell RNA sequencing data, *Computers in Biology and Medicine*, 146 (2022) 105697.
- [9] **Zhuang, Jujuan**, Cui, Lingyu, Qu, Tianqi, Ren, Changjing, Xu, Junlin, Li, Tianbao, Tian, Geng, Yang, Jialiang*, A Streamlined scRNA-Seq Data Analysis Framework Based on Improved Sparse Subspace Clustering, *IEEE Access*, 9, 2021. 9719-9727.
- [10] **Zhuang Jujuan**, Liu danyang, Meng Lin , Wenjing Qiu , Jinyang Liu and Size Chen*, PseUdeep: RNA pseuduridine sites identification with deep learning algorithm, *Frontiers in Genetics*, 2021, 12:773882.
- [11] **Zhuang, Jujuan**, Ren, Changjing, Ren, Dan, Li, Yu'ang, Liu, Danyang, Cui, Lingyu, Tian, Geng, Yang, Jiasheng, Liu, Jingbo, A Novel Single-Cell RNA Sequencing Data Feature Extraction Method Based on Gene Function Analysis and Its Applications in Glioma Study, *Frontiers in Oncology*, 2021 Nov 30;11:797057.
- [12] **Jujuan Zhuang**, Shuang Dai, Lijun Zhang, Pan Gao, Ling Kui*, Identifying Breast Cancer-induced gene perturbations and its application in guiding drug repurposing, *Current Bioinformatics*, 2020, 15(9), 1075-1089.
- [13] **Jujuan Zhuang**, Lijun Zhang, shuang Dai, Lingyu Cui, Cheng Guo, Laura sloofman, Jialiang Yang*, Comparison of multi-tissue aging between human and mouse, *Scientific Reports*, 2019, 9:6220.
- [14] Jinxia Wang, Liwei Li, Tao Chen, Jie Ma, Yunping Zhu, **Jujuan Zhuang***, Cheng Chang*, In-depth method assessments of differentially expressed protein detection for shotgun proteomics data with missing values, *Scientific Reports*, 2017, 7 (1) :3367.
- [15] Weidong Gao, Yuanlin Li, Pingping Zhao and **Jujuan Zhuang**, On sequences over a finite abelian group with zero-sum subsequences of forbidden lengths, *Colloquium Mathematicum*. 144, 2016, 31-44.
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- [20] Qinghong Wang and **JuJuan Zhuang**, Inverse problems on critical number in finite groups, *Open Journal of Discrete Mathematics*, 3, 2013, 93-96.
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- [22] **JuJuan Zhuang** and Pingping Zhao, On the equivalence of short sequences in cyclic groups of prime order, *College Mathematics*, 28, 2012, 17-19.
- [23] Qinghong Wang and **JuJuan Zhuang**, On the critical number of finite groups of order pq , *International Journal of Number Theory*, 8(5), 2012, 1271-1279.
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- [26] **JuJuan Zhuang**, Zhiping Wang, Weighted version of Erdos-Ginzburg -Ziv theorem in finite cyclic groups. *Advances in Information and System Sciences*, 3, 2009, 466-468.
- [27] **JuJuan Zhuang** and Pingzhi Yuan, Minimal Zero-Sum Sequences in Finite Cyclic Groups, *Taiwanese Journal of Mathematics*, 13(3), 2009, 1007-1015.
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- [31] **JuJuan Zhuang**, Unextendible sequences in finite abelian groups, *Electronic Journal of Combinatorics*, 15, 2008, N24.
- [32] Weidong Gao and **JuJuan Zhuang**, Sequences not containing long zero-sum subsequences, *European Journal of Combinatorics*, 27, 2006, 777-787.
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教材类

- [1] 庄举娟，郑佳主编，概率论，大连海事大学出版社，2024.12。ISBN 978-7-5632-4608-3。
- [2] 胡敏，庄举娟，谢海燕主编，概率论与数理统计，上海交通大学出版社，第二版，2023.08。ISBN 978-7-313-29029-8

	[3] 庄举娟，郑佳主编，概率论基础(自编讲义)，大连海事大学出版社，2022.08。 [4] 胡敏，庄举娟，谢海燕主编，概率论与数理统计，上海交通大学出版社，第一版，2012.02。ISBN 978-7-313-08085-1。 [5] 陈刚，傅红笋，庄举娟，鄂强主编，概率论与数理统计协同训练指导，科学出版社，2019.09。ISBN 978-7-03-061778-1。
代表性项目	[1] 国家自然科学基金面上项目（子课题），11971347，“半群上的零和问题研究”，国家自然科学基金项目，2020.01-2023.12，已结题，主持。 [2] 国家自然科学基金青年项目，11001035，子集和与零和理论中若干问题研究，2011/01-2013/12，已结题，主持。 [3] 国家自然科学基金天元基金，10826026，零和序列相关问题，2009/01-2009/12，已结题，主持。 [4] 国家自然科学基金面上项目，昆虫 RNA 干扰的 dsRNA 分子设计及代谢动力学研究，项目编号：62071079。2021.01-2024.12，已结题，参加。 [5] 辽宁省研究生教学改革项目，人工智能时代研究生数据创新能力培养的研究与探索，LNYJG2024155，2024，在研，主持。 [6] 辽宁省教学改革项目，与管理类专业课相衔接的公共数学基础课教学内容改革与实践，证书编号：11492091176，已结题，参加。
荣誉奖励	[1] 教育部科技成果 “组合数论中的结构问题和组合数学中的代数方法”，成果登记号：360-10- 10310117 -02，第二完成者。 [2] 辽宁省自然科学学术成果奖论文类二等奖，编号：2007-LNL0498。 [3] 辽宁省自然科学学术成果奖论文类二等奖，编号：2010-LNL0479。 [4] 辽宁省自然科学学术成果奖论文类三等奖，编号：2009-LNL0032。 [5] 大连市自然科学优秀学术论文三等奖，编号 2009-515。 [6] 大连海事大学“泛洋”优秀教师二等奖，2009 年。 [7] 入选辽宁省“百千万人才工程”，2007 年。 [8] 辽宁省高等教育教学成果奖三等奖，2009 年，排名 5。 [9] 大连海事大学研究生优质教学奖二等奖，2022 年，排名 1。 [10] 大连海事大学研究生教育教学成果奖一等奖，2020 年，排名 6。 [11] 大连海事大学本科教学成果奖二等奖，2021 年，排名 6。 [12] 辽宁省普通高等学校本科生大学生市场调查与分析大赛优秀指导教师，2024 年。
社会兼职	[1] 德国数学文摘（Zentralblatt MATH）评论员。 [2] 美国数学评论（Mathematical Reviews）评论员。 [3] 中国现场统计研究会多元分析应用专业委员会理事会理事。