包寒吴霜

Dr. BAO Han Wu Shuang (Bruce)

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Updated: Nov 2026

Academic Position

2024.6~ ***Assistant Professor***
East China Normal University, School of Psychology and Cognitive Science
华东师范大学 · 心理与认知科学学院 (助理教授/明园晨晖学者)

2022.9~2024.5 ***Research Associate***
The University of Manchester, Manchester China Institute
曼彻斯特大学 · 曼彻斯特中国研究院 (博士后研究员)

Education

2017~2022 ***Ph.D.*** in Personality and Social Psychology
Chinese Academy of Sciences, Institute of Psychology
中国科学院 · 心理研究所 (理学博士)

2013~2017 ***B.Sc.*** in Psychology
Beijing Normal University, Faculty of Psychology
北京师范大学 · 心理学部 (理学学士)

Research Interests

Computational Linguistic Social Psychology

- Fill-Mask Association Test (FMAT) for social, cultural, and historical psychology
  - Intergroup bias (stereotypes, prejudice, and discrimination)
    - Cultural/regional bias
    - Intersectional bias
    - Occupational bias
    - Name-based bias
    - Historical bias

Awards

- IEEE Behavioural and Social Computing (BESC) 2026 Rising Star Award

Grants

- 上海市浦江人才计划项目 Shanghai Pujiang Programme (24PJC025) 2024.12~2027.11
  (Shanghai Municipal Commission of Science and Technology; Shanghai Municipal Bureau of Human Resources and Social Security)
- 上海市晨光计划项目 Shanghai Chenguang Programme (24CGA28) 2024.12~2026.11
  (Shanghai Municipal Commission of Education; Shanghai Education Development Foundation)

Teaching

Undergraduate Level:

- R 语言 (R: Data Analysis and Visualization) [R Course Open Tutorial (in Chinese)]
- 人格心理学 (Personality Psychology)

Graduate Level:

- 高级心理统计 (Advanced Statistics for Psychology)

Publications

*corresponding author supervised student

Journal Articles in English:

Bao, H. W. S.*, Ma, L., & Wang, Z. (2026). Economic inequality in history: Perceived and objective changes align but diverge from public attention. ***Journal of Pacific Rim Psychology***, *20*, Article 18344909261444110. [doi]
(IF_{2025} = 3.3, SSCI Q1)

Wang, Z., Xia, H., **Bao, H. W. S.***, Jing, Y., & Gu, R.* (2025). Artificial intelligence is stereotypically linked more with socially dominant groups in natural language. ***Advanced Science***, *12*(39), Article e08623. [doi]
(IF_{2025} = 14.1, SCI Q1)

Bao, H. W. S., & Gries, P.* (2025). Biases about Chinese people in English language use: Stereotypes, prejudice and discrimination. ***China Quarterly***, *263*, 830–842. [doi]
(IF_{2025} = 3.4, SSCI Q1)

Bao, H. W. S., & Gries, P.* (2024). Intersectional race–gender stereotypes in natural language. ***British Journal of Social Psychology***, *63*(4), 1771–1786. [doi]
(IF_{2025} = 3.8, SSCI Q1)

Bao, H. W. S.* (2024). The Fill-Mask Association Test (FMAT): Measuring propositions in natural language. ***Journal of Personality and Social Psychology***, *127*(3), 537–561. [doi]
(IF_{2025} = 6.8, SSCI Q1)

Bao, H. W. S., Cai, H.*, & Jing, Y. (2024). Understanding the rise of unique names: The emphasis on uniqueness matters. ***Acta Psychologica Sinica (心理学报)***, *56*(7), 954–963. [doi]
(IF_{2025} = 1.9, ESCI Q2, CSSCI) (Full text in English)

Bao, H. W. S., Lu, H., & Luo, Y. L. L.* (2023). Do unique names fit people for creative work? Implications for job recruitment, name change, and product evaluation. ***European Journal of Social Psychology***,

53(7), 1524–1541. [doi]
(IF_{2025} = 2.7, SSCI Q2)

Bao, H. W. S., Cai, H.*, & Huang, Z. (2022). Discerning cultural shifts in China? Commentary on Hamamura et al. (2021). ***American Psychologist***, *77*(6), 786–788. [doi]
(IF_{2025} = 6.6, SSCI Q1)

Bao, H. W. S., Cai, H.*, Jing, Y., & Wang, J. (2021). Novel evidence for the increasing prevalence of unique names in China: A reply to Ogihara. ***Frontiers in Psychology***, *12*, Article 731244. [doi]
(IF_{2025} = 3.8, SSCI Q1)

Cai, H., Ji, L.-J., **Bao, H. W. S.**, Yang, Z., Xie, Y., Wang, X., Zhang, M., Zhu, H., Su, Z., Zhou, W., Chen, J., Yang, Y., Liang, Z., Chen, J., Zheng, W., Zhao, X., Zhang, S., Chang, B., Bai, H., … Jing, Y.* (2026). Understanding regional cultural-psychological variations and their sources in China: A comprehensive examination of relevant theories. ***Journal of Cross-Cultural Psychology***, *57*(5), 742–779. [doi]
(IF_{2025} = 3.6, SSCI Q1)

Chuan-Peng, H.*, Xu, Z., Lazić, A., Bhattacharya, P., Seda, L., Hossain, S., Jeftic, A., Özdoğru, A. A., Amaral, O. B., Miljković, N., Ilchovska, Z. G., Lazarevic, L. B., **Bao, H. W. S.**, Ghodke, N., Moreau, D., Elsherif, M., Chinchu, C., Ghai, S., Carneiro, C. F. D., … Azevedo, F.* (2025). Open science in the developing world: A collection of practical guides for researchers in developing countries. ***Advances in Methods and Practices in Psychological Science***, *8*(3), Article 25152459251357565. [doi]
(IF_{2025} = 14.6, SSCI Q1)

Shi, Y., Luo, Y. L. L.*, Yang, Z., Liu, Y., & **Bao, H.** (2018). Do narcissists enjoy visiting social networking sites? It depends on how adaptive they are. ***Frontiers in Psychology***, *9*, Article 1739. [doi]
(IF_{2025} = 3.8, SSCI Q1)

Journal Articles in Chinese:

Bao, H. W. S., Wang, Z., Cheng, X., Su, Z., Yang, Y., Zhang, G., Wang, B., & Cai, H.* (2023). Using word embeddings to investigate human psychology: Methods and applications. ***Advances in Psychological Science***, *31*(6), 887–904. [doi]
[**包寒吴霜**, 王梓西, 程曦, 苏展, 杨盈, 张光耀, 王博, 蔡华俭*. (2023). 基于词嵌入技术的心理学研究：方法及应用. ***心理科学进展***, *31*(6), 887–904.] (CSSCI)
(中国人民大学复印报刊资料《心理学》2023 年第 11 期全文转载)

Bao, H. W. S., & Cai, H.* (2021). Psychological and behavioral effects of personal names in real world: Evidence and theories. ***Advances in Psychological Science***, *29*(6), 1067–1085. [doi]
[**包寒吴霜**, 蔡华俭*. (2021). 姓名对个体心理与行为的实际影响：证据和理论. ***心理科学进展***, *29*(6), 1067–1085.] (CSSCI)
(中国人民大学复印报刊资料《心理学》2021 年第 10 期全文转载) (入选哲学社会科学主文献)

Bao, H. W. S., Cai, H., & Luo, Y.* (2019). Identity motives: Concept, measurement, and psychological effects. ***Journal of Psychological Science***, *42*(4), 971–977. [doi]
[**包寒吴霜**, 蔡华俭, 罗宇*. (2019). 身份认同动机：概念、测量与心理效应. ***心理科学***, *42*(4), 971–977.] (CSSCI)

Bao, H. W. S., Wu, S.*, Zheng, H., Lu, H., Zheng, W., Dai, W., Lu, S., & Zhu, T.* (2018). Polluted self: A big-data analysis based on daily-level air pollution and individualism-collectivism on social media. ***Community Psychology Research***, *6*(2), 71–85.
[**包寒吴霜**, 吴胜涛*, 郑昊, 陆海蓉, 郑伟, 戴炜, 陆梭, 朱廷劭*. (2018). 雾霾下的自我：空气污染与个体主义–集体主义的大数据分析. ***社区心理学研究***, *6*(2), 71–85.] (CSSCI 集刊)

Bao, H. W. S., Chen, J., Lin, J., & Liu, L.* (2016). Effects of name and gender on interpersonal attraction: Gender role evaluation as a mediator. ***Chinese Journal of Clinical Psychology***, *24*(4), 596–600. [doi]
[**包寒吴霜**, 陈俊霖, 林俊利, 刘力*. (2016). 名字与性别的人际吸引机制：性别角色评价的中介作用. ***中国临床心理学杂志***, *24*(4), 596–600.] (CSSCI)

Wu, Y., Wang, B.*, **Bao, H. W. S.**, Li, R., Wu, Y., Wang, J., Cheng, C., & Yang, L.* (2025). Humans perceive warmth and competence in large language models. ***Acta Psychologica Sinica***, *57*(11), 2043–2059.
[武月婷, 王博*, **包寒吴霜**, 李若男, 吴怡, 王嘉琪, 程诚, 杨丽*. (2025). 人类对大语言模型的热情和能力感知. ***心理学报***, *57*(11), 2043–2059.] (CSSCI)

Zhang, M., Yang, Y., **Bao, H. W. S.**, & Cai, H.* (2024). The positive ideal affect of Chinese people: Trends over the past decades. ***Acta Psychologica Sinica***, *56*(7), 847–858. [doi]
[张明杨, 杨盈, **包寒吴霜**, 蔡华俭*. (2024). 中国人的积极理想情绪：近几十年来的变迁. ***心理学报***, *56*(7), 847–858.] (CSSCI)

Cai, H.*, Zhang, M., **Bao, H. W. S.**, Zhu, H., Yang, Z., Cheng, X., Huang, Z., & Wang, Z. (2023). Examining societal change from the perspective of psychology: Research design and analytic techniques. ***Advances in Psychological Science***, *31*(2), 159–172. [doi]
[蔡华俭*, 张明杨, **包寒吴霜**, 朱慧珺, 杨紫嫣, 程曦, 黄梓航, 王梓西. (2023). 心理学视野下的社会变迁研究：研究设计与分析方法. ***心理科学进展***, *31*(2), 159–172.] (CSSCI)

Yang, Y., Zhu, H., Zhou, W., Zhang, M., Xie, Y., **Bao, H. W. S.**, Su, Z., Wang, X., Jing, Y., Yang, Z., & Cai, H.* (2020). The behavioral immune system: A multi-level reconsideration. ***Advances in Psychological Science***, *28*(11), 1865–1879. [doi]
[杨盈, 朱慧珺, 周婉, 张明杨, 谢怡萍, **包寒吴霜**, 苏展, 王潇欧, 敬一鸣, 杨紫嫣, 蔡华俭*. (2020). 行为免疫系统理论及其研究：新视野下的再考察. ***心理科学进展***, *28*(11), 1865–1879.] (CSSCI)

Newspaper Articles:

Bao, H. W. S., & Cai, H.* (2021, March 4). Improve the reliability of psychological research on names. ***Chinese Social Sciences Today***. [link]
[**包寒吴霜**, 蔡华俭*. (2021-03-04). 提高姓名心理学研究的可靠程度. ***中国社会科学报***, 2118.]

Conference Presentations:

包寒吴霜*, 高东宇*. (2026). *主效应在回归交互分析中的解读问题及对策*. 上海市心理学会心理测量与统计专业委员会 2026 年学术年会, 上海. (口头报告)

包寒吴霜*, 高东宇*. (2026). *主效应在回归交互分析中的解读问题及对策*. 中国心理学会心理统计与数据科学专业委员会 2026 年学术年会, 吉林长春. (口头报告)

包寒吴霜*. (2025). *有向预测指数(DPI)：量化因果方向清晰度的实证方法*. 中国社会心理学会社会量化研究方法专业委员会首届学术年会, 广东广州. (专题报告)

包寒吴霜*. (2025). *有向预测指数(DPI)：基于多元回归变量相对内生性的准因果推断.* 第二十六届全国心理学学术会议, 山东济南. (专题研讨会报告)

包寒吴霜*, 麻吏威, 王梓西. (2025). *经济不平等百年变迁的历史叙事：基于 FMAT 范式的自然语言计算智能分析.* 第 3 届社会科学量化研究方法学者论坛, 云南大理. (主旨报告)

包寒吴霜*, 麻吏威, 王梓西. (2025). *经济不平等百年变迁的历史叙事：基于 FMAT 范式的自然语言计算智能分析.* 中国社会心理学会 2025 年学术年会, 四川成都. (口头报告)

包寒吴霜*, 麻吏威, 王梓西. (2025). *经济不平等百年变迁的历史叙事：基于 FMAT 范式的自然语言计算智能分析.* 中国社会心理学会廉政心理研究专业委员会第一届学术研讨会, 上海. (专题报告)

包寒吴霜, Peter Gries*. (2024). *Racial Bias Toward Chinese in English Natural Language*. 中国社会心理学会 2024 年学术年会, 上海. (口头报告)

包寒吴霜*. (2024). *大数据自然语言群体心理学：从词汇分析到语言模型的方法变革及理论启示.* 中国心理学会社会心理学专业委员会 2024 年学术年会, 山东济南. (大会特邀报告)

包寒吴霜, 蔡华俭*. (2020). *中国人名字独特性的上升：新证据和机制.* 中国心理学会社会心理学专业委员会 2020 年学术年会, 海南海口. (口头报告)

包寒吴霜, 蔡华俭, 罗宇*. (2019). *人如其名，名职匹配？名字独特性预测职业选择与职业成就.* 第二十二届全国心理学学术会议, 浙江杭州. (口头报告)

包寒吴霜, 蔡华俭, 罗宇*. (2018). *名字独特性预测职业选择：来自大数据和实验的证据.* 中国心理学会社会心理学专业委员会 2018 年学术年会, 山东曲阜. (口头报告)

SERVICE

Editorial Roles:

- *PsyCh Journal* (Youth Editorial Board Member, 2026~2028)
- *PNAS Nexus* (Guest Handling Editor, 2025.12)

Peer Reviewer (Articles Reviewed):

- *Nature* (1)
- *Nature Human Behaviour* (2)
- *Nature Communications* (1)
- *Psychological Science* (1)
- *Acta Psychologica* (1); *AI and Ethics* (1); *Applied Psychology* (1); *Behavior Research Methods* (2); *British Journal of Social Psychology* (1); *Canadian Studies in Population* (1); *Communications Psychology* (1); *Current Research in Ecological and Social Psychology* (1); *Frontiers in Education* (1); *Frontiers in Psychology* (1); *F1000Research* (3); *Humanities and Social Sciences Communications* (1); *Journal of Cross-Cultural Psychology* (1); *Journal of Pacific Rim Psychology* (2); *Organization Science* (1); *PeerJ Computer Science* (1); *Personnel Review* (1); *PsyCh Journal* (1); *Self and Identity* (1); *Social Psychology* (1); *Social Science Research* (1)
- 心理学报 *Acta Psychologica Sinica* (28)
- 心理科学 *Journal of Psychological Science* (23)
- 心理科学进展 *Advances in Psychological Science* (4)
- 心理技术与应用 *Psychology: Techniques and Applications* (10)
- 心理学通讯 *Psychological Communications* (17)

Academic Committee Membership:

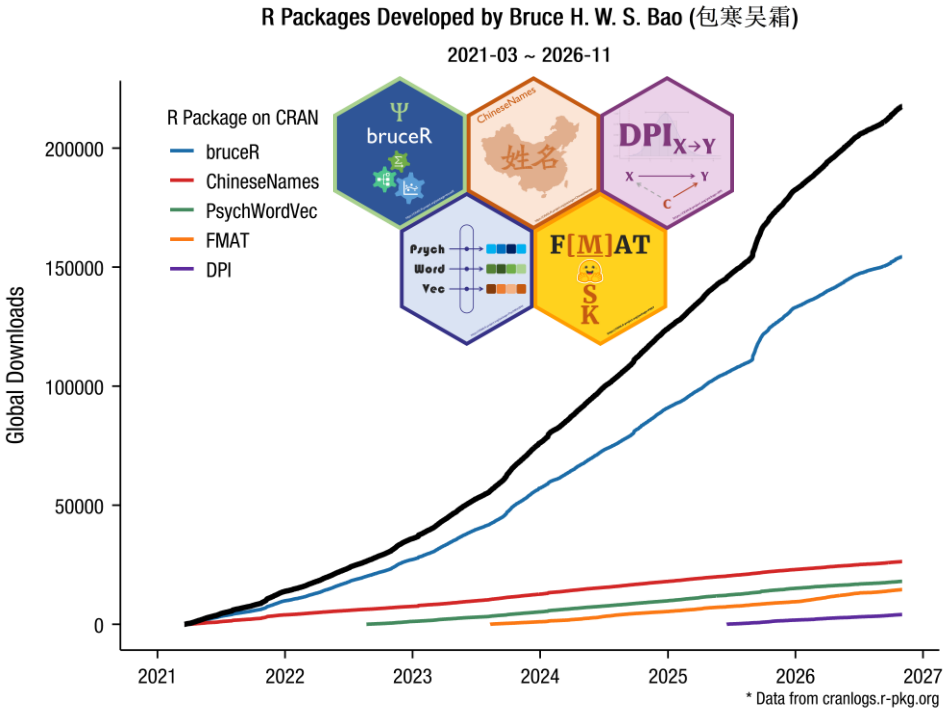
- Chinese Psychological Society
- Chinese Association of Social Psychology
- Chinese Association for Artificial Intelligence

- Judging Panel Member of the CAAI-BDSC 2024 Social Computing Innovation Contest
- Judging Panel Member of the CAAI-BDSC 2023 Social Computing Innovation Contest

- Shanghai Psychological Society: *Psychology + Artificial Intelligence*

Expertise

R	Proficient	Data analysis and visualization using R. R packages developed independently:



- **bruceR** (v2026.1): Broadly Useful Convenient and Efficient R Functions
  https://CRAN.R-project.org/package=bruceR
  (Downloads: 154,000+)
- **ChineseNames** (v2025.8): Chinese Name Database 1930-2008
  https://CRAN.R-project.org/package=ChineseNames
  (Downloads: 26,000+)
- **PsychWordVec** (v2025.11): Word Embedding Research Framework for Psychological Science
  https://CRAN.R-project.org/package=PsychWordVec
  (Downloads: 18,000+)
- **FMAT** (v2026.1): The Fill-Mask Association Test
  https://CRAN.R-project.org/package=FMAT
  (Downloads: 15,000+)
- **DPI** (v2026.2): The Directed Prediction Index for Causal Direction Inference from Observational Data
  https://CRAN.R-project.org/package=DPI
  (Downloads: 4,000+)
- **NgramTools** (v0.1.0): Efficient R Functions for Google Books Ngram Data Analysis
  https://github.com/psychbruce/NgramTools

		• **drawMap** (v0.3.6): Easily Draw China Maps https://github.com/psychbruce/drawMap
Python	Proficient	Web crawling, big data collection and processing.
SPSS	Proficient	Basic and advanced data analyses.
Mplus	Familiar	Structural equation modeling.
JavaScript	Familiar	Using the "jsPsych" toolbox to develop online experiments and surveys.
MATLAB	Familiar	Using the "PsychToolBox" to develop psychological experiments.
Excel	Proficient	Microsoft Office Specialist (MOS) Certification: Expert-Level
Word	Proficient	Microsoft Office Specialist (MOS) Certification: Expert-Level
PowerPoint	Proficient	Microsoft Office Specialist (MOS) Certification: Specialist-Level

Invited Talks

2026.10 **Interpreting Main Effects in Regression Analysis with Interactions: Problems and Solutions**
- East China Normal University & Shanghai Psychological Society

2025.10 **Advances in Social Computing and Causal Discovery**
- Shaanxi Normal University (invited by Cong Wei)

2025.10 **The Directed Prediction Index (DPI): Quantifying Relative Endogeneity for Causal Inference from Observational Data**
- East China Normal University & Shanghai Psychological Society

2024.12 **Research Methods with Natural Language for Social Psychology**
- Invited by *Psychological Communications* (online)

2024.09 **Group-Level Psychology with Big Data and Natural Language** (Special Invitation)
- The 2024 Annual Academic Conference of the Social Psychology Committee of Chinese Psychological Society, Jinan, Shandong, China

2023.12 **Computational Intelligent Social Psychology: Using AI Language Models to Understand Society and Culture**
- School of Psychology and Cognitive Science, East China Normal University

2023.11 **Using Natural Language to Study Human Society: WEAT and FMAT with R** (Social Data Science Workshop)
- Cathie Marsh Institute, University of Manchester (invited by Arkadiusz Wiśniowski)

2023.10 **Western Views of China in Natural Language** (Early Career Research Workshop)
- Manchester China Institute, University of Manchester

2023.09 **Social Science in Natural Language: Word Counting, Word Embedding, and Language Modeling** ("Translation Academy" Salon Series)
- University of Manchester (online)

2023.04 **Discerning Human Society in Natural Language: Methods Based on Frequency, Similarity, and Probability** (GNARC ECR Methods Workshop)
- University of Manchester (invited by Nan Zhang)

2022.06 **bruceR in the Workflow of Data Analysis**
- Nanjing Normal University (invited by Chuan-Peng Hu)

2022.03 **Embedded in Word Embedding: Methodological Evolution in the Era of AI**
- Institute of Psychology, CAS

2021.12 **R in Data Science**

- Beijing Normal University (invited by Zijun Cai)

2021.11 **R Programming and the bruceR Package**

- Peking University (invited by Guiquan Li)

2021.09 **How to Learn R Programming?**

- Holland Psychometrics Association (online)

2021.06 **How to "Uninstall" SPSS? Tips on Learning R Programming**

- Nanjing Normal University (invited by Chuan-Peng Hu)

2019.11 **Multilevel Modeling: Methods, Key Issues, and Applications** (2-Day Workshop)

- Institute of Psychology, CAS (invited by Xingshan Li)

2019.10 **Multilevel Modeling: Methods, Key Issues, and R Programming**

- The 22nd National Academic Congress of Psychology, Hangzhou, Zhejiang, China

Hobbies

Billiards/Snooker | Strength Training | Wing-Chun (咏春拳) | Nunchakus | Mixed Martial Arts | Piano

Hometowns

"浙江长大的江苏山东后裔河南人"
Xinxiang, Henan Province (1995~2001)
Ningbo, Zhejiang Province (2001~2013)
Beijing (2013~2022)