# 包寒吴霜

# Dr. BAO Han-Wu-Shuang (Bruce)

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## Employment

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| 2022.9~2024.8 | **Postdoc Research Associate** |
| | Manchester China Institute |
| | The University of Manchester, UK |
| | (Cooperative Supervisor: Prof. Peter Gries) |
| | 英国曼彻斯特大学 · 曼彻斯特中国研究院 (博士后研究员) |

## Education

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|---|---|
| 2017~2022 | **Ph.D.** in Personality and Social Psychology |
| | Institute of Psychology, Chinese Academy of Sciences, China |
| | (Supervisor: Prof. Huajian Cai) |
| | 中国科学院 · 心理研究所 (理学博士) |
| 2013~2017 | **B.Sc.** in Psychology |
| | Faculty of Psychology, Beijing Normal University, China |
| | 北京师范大学 · 心理学部 (理学学士) |

## Research Interests

**Computational Intelligent Social Psychology (计算智能社会心理学)**
- Natural Language Processing (NLP) Methodology
  - The Fill-Mask Association Test (FMAT)
  - AI/Large Language Models (LLM)
  - Word Embeddings
- Social Cognition and Cultural Psychology
  - Propositional Semantic Representations
  - Stereotypes, Prejudices, and Discrimination
  - Sociocultural Changes and Regional Variations

## Publications

* Corresponding author

### Journal Articles in English (5 + 2 R&R):

**Bao, H.-W.-S.**, & Gries, P.* (Revise & Resubmit). Intersectional racial stereotypes in natural language. *British Journal of Social Psychology*.
(IF$_{2022}$ = 5.4, SSCI Q1)

**Bao, H.-W.-S.*** (Minor Revision). The Fill-Mask Association Test (FMAT): Measuring propositions in natural language. *Journal of Personality and Social Psychology*.
(IF$_{2022}$ = 7.6, SSCI Q1 Top Journal)

**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), in press.
(IF$_{2022}$ = 1.5, ESCI, CSSCI Top Journal) (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. [link]
(IF$_{2022}$ = 3.9, 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. [link]
(IF$_{2022}$ = 16.4, 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. [link]
(IF$_{2022}$ = 3.8, 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. [link]
(IF$_{2022}$ = 3.8, SSCI Q1)

### Journal Articles in Chinese (8):

**Bao, H.-W.-S.**, Wang, Z.-X., Cheng, X., Su, Z., Yang, Y., Zhang, G.-Y., Wang, B., & Cai, H.* (2023). Using word embeddings to investigate human psychology: Methods and applications. *Advances in Psychological Science, 31*(6), 887–904. [link]
[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. [link]
[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)

**Bao, H.-W.-S.**, Cai, H., & Luo, Y.* (2019). Identity motives: Concept, measurement, and psychological effects. *Journal of Psychological Science, 42*(4), 971–977. [link]

[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.-T.*, Zheng, H., Lu, H.-R., Zheng, W., Dai, W., Lu, S., & Zhu, T.-S.* (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.-L., Lin, J.-L., & 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. [link]
[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)

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

Cai, H.*, Zhang, M.-Y., **Bao, H.-W.-S.**, Zhu, H.-J., Yang, Z.-Y., Cheng, X., Huang, Z.-H., & Wang, Z.-X. (2023). Examining societal change from the perspective of psychology: Research design and analytic techniques. *Advances in Psychological Science, 31*(2), 159–172. [link]
[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.-J., Zhou, W., Zhang, M.-Y., Xie, Y.-P., **Bao, H.-W.-S.**, Su, Z., Wang, X.-O., Jing, Y.-M., Yang, Z.-Y., & Cai, H.* (2020). The behavioral immune system: A multi-level reconsideration. *Advances in Psychological Science, 28*(11), 1865–1879. [link]
[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 (1):**

**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 (3):**

**Bao, H.-W.-S.**, & Cai, H.* (2020, December). *Chinese names are becoming more unique over time: New evidence and mechanisms*. Paper presented at the 2020 Annual Conference of the Social Psychology Branch of Chinese Psychological Society, Haikou, Hainan, China.
[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分会 2020 年学术年会，海南海口.]

**Bao, H.-W.-S.**, Cai, H., & Luo, Y. L. L.* (2019, October). *Name-job uniqueness fit: Name uniqueness predicts job choice and is associated with career success*. Paper presented at the 22nd National Academic Congress of Psychology, Hangzhou, Zhejiang, China.

[**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.]

**Bao, H.-W.-S.**, Cai, H., & Luo, Y. L. L.\* (2018, October). *Name uniqueness predicts job choice: Evidence from big data and experiments*. Paper presented at the 2018 Annual Conference of the Social Psychology Branch of Chinese Psychological Society, Qufu, Shandong, China.

[**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分会 2018 年学术年会, 山东曲阜.]

## Academic Services

**Journal Reviewer (Articles Reviewed):**

International Journals:
- *Nature Human Behaviour* (1)
- *Communications Psychology* (1)
- *Journal of Cross-Cultural Psychology* (1)
- *Frontiers in Psychology* (1)
- *Frontiers in Education* (1)
- *PeerJ Computer Science* (1)
- *Acta Psychologica* (1)
- *F1000Research* (2)

Chinese Journals:
- 心理学报 *Acta Psychologica Sinica* (13)
- 心理科学进展 *Advances in Psychological Science* (3)
- 心理技术与应用 *Psychology: Techniques and Applications* (3)
- 心理学通讯 *Psychological Communications* (8)

**Academic Committee Member:**
- Chinese Association for Artificial Intelligence – Big Data & Social Computing (CAAI-BDSC): [Judging Panel Member](link) of the CAAI-BDSC 2023 Social Computing Innovation Contest

## Teaching Experiences

**2023-Winter**   **Advanced R Programming & Visualization (4-Day Online Course)** [[link]]
- *Lecturer*

**2021-Fall**   **Self & Identity (Graduate Level)**
- *Lecturer*

**2020-Summer**   **R Programming (Beginner & Advanced Levels)**
- *Lecturer*

**2018-Spring**   **Cultural & Cross-Cultural Psychology (Graduate Level)**
- *Teaching Assistant* (Professors: Huajian Cai & Yiming Jing)

**2017-Fall**   **Implicit Social Cognition (Graduate Level)**
- *Teaching Assistant* (Professors: Huajian Cai & Xiaoqing Hu)

**2017-Spring**   **Self & Identity (Graduate Level)**
- *Teaching Assistant* (Professor: Huajian Cai)

## Software & Programming Expertise

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

- **bruceR** (v2023.9): Broadly Useful Convenient and Efficient R Functions
  https://CRAN.R-project.org/package=bruceR
  (Downloads: 62,000+)
- **ChineseNames** (v2023.8): Chinese Name Database 1930-2008
  https://CRAN.R-project.org/package=ChineseNames
  (Downloads: 14,000+)
- **PsychWordVec** (v2023.9): Word Embedding Research Framework for Psychological Science
  https://CRAN.R-project.org/package=PsychWordVec
  (Downloads: 6,000+)
- **FMAT** (v2023.8): The Fill-Mask Association Test
  https://CRAN.R-project.org/package=FMAT
  (Downloads: 1,000+)
- **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

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| **Python** | Proficient | Web crawling, big data collection and processing. |
| | | • Have crawled 20+ websites for data collection in research. |
| **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 & Workshops

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| **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: Word Embedding Association Test (WEAT) and Fill-Mask Association Test (FMAT) with R** |
| | (Social Data Science Workshop) |
| | • Cathie Marsh Institute, University of Manchester |
| **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) |
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| | • University of Manchester (invited by Prof. Nan Zhang) |
| 2022-06 | **bruceR in the Workflow of Data Analysis** |
| | • Nanjing Normal University (invited by Prof. 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 Prof. Zijun Cai) |
| 2021-11 | **R Programming and the bruceR Package** |
| | • Peking University (invited by Prof. 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 Prof. Chuan-Peng Hu) |
| 2019-11 | **Multilevel Modeling: Methods, Key Issues, and Applications (2-Day Workshop)** |
| | • Institute of Psychology, CAS (invited by Prof. 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 ｜ Wing-Chun ｜ Nunchakus ｜ Mixed Martial Arts ｜ Tae-Kwon-Do ｜ Skiing ｜ Magic

## Hometowns

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