

# Dr. Xuran Han

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Old Royal Naval College, Park Row, London, SE10 9LS

## EMPLOYMENT

04/2023 – Present

### Assistant Professor in Psychology

School of Human Sciences, Faculty of Education, Health and Human Sciences,  
University of Greenwich

Module leader for Psychological Research Methods module (Level 5)

Early Career Researcher Representative in School of Human Sciences

## EDUCATION

09/2018 – 11/2022

### Doctor of Philosophy

Department of Psychology and Human Development, Institute of Education,  
University College London, UK

PhD supervisors: Prof. Roberto Filippi & Prof. Li Wei

PhD Thesis: *An Investigation of the Effects of Language Experience on Cognitive Control in Bilingual Speakers* (Thesis defense passed without corrections)

12/2019 – Present

### Researcher of the Multilanguage and Cognition (MULTAC) Lab

Psychology and Human Development Department, Institute of Education, University  
College London, UK

09/2017 – 09/2018

### Master in Applied Linguistics

Culture, Communication and Media Department, Institute of Education, University  
College London, UK

MA Dissertation: *Lexical Aspect and L1 Mandarin Influence on English Verb Past Tense Construction of Chinese Adult English Learners*

09/2013 – 07/2017

### Bachelor (Hons) in English (GPA 3.5/4.0)

School of Foreign Languages, Zhengzhou University, China

BA Dissertation: *A Cognitive Study of Multimodal Emoticons in Mobile Instant Messaging* (Outstanding Bachelor Dissertation Prize awarded)

## RESEARCH EXPERIENCE

2022 – Present

### Trajectories of visual-spatial and motor skills in secondary school Mandarin language learners (University of Greenwich & University College London, UK)

- The project aims to investigate:
  - The effects of intense learning of Mandarin language on visual-spatial and motor skills among secondary school pupils in London;
  - Whether pupils with high baseline scores of visual-spatial and motor skills are facilitated in the acquisition of Chinese Mandarin;
- Lead the research team to design cognitive tasks and study for testing bilingual pupils;
- Lead the team to schedule study, conduct data collection and statistical analysis.

2020 – 2022

### Experimental project on interactive effects of bilingual language experience on domain-general cognitive control underlying bilinguals' spontaneous and cued language production (University College London, UK)

- A set of innovative bilingual spontaneous language production tasks (i.e., conversational task and bilingual narration task) are proposed to quantify bilinguals' habitual code-switching production experience
- Bayesian linear regression and linear mixed effect models are computed in R to analyse the effects of habitual language use experience on bilinguals' cognitive control during language production
- The project highlighted: Bilinguals' habitual language use contexts and code-switching patterns are influential factors in affecting their cognitive control efficiency

2019 – 2021

**Experimental project on the roles of interactional contexts and code-switching patterns in affecting bilinguals' cognitive control underlying language comprehension** (University College London, UK)

- Implement online real-time bilingual language processing manipulations pioneeringly.
- Provide significant evidence for the overlapping cognitive control mechanisms across bilingual language comprehension and production.
- Provide practical and innovative approaches in ecologically-valid bilingual dialogues/sentences design for future works to investigate cognitive mechanisms underlying bilingual language comprehension.

## **PUBLICATIONS**

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- **Han, X.**, Li, W., Filippi, R., (2022). Modulating effects of interactional contexts on bilinguals' cognitive control: evidence for the Adaptive Control Hypothesis. *International Journal of Bilingualism*.  
<https://doi.org/10.1177/13670069221102011>
- **Han, X.**, Li, W., Filippi, R., (2022). The effects of habitual code-switching in bilingual language production on cognitive control. *Bilingualism: Language & Cognition*, 1-21. <https://doi.org/10.1017/S1366728922000244>
- **Han, X.**, Li, W., & Filippi, R. (2024). Modulating bilingual language production and cognitive control: how bilingual language experience matters. *Bilingualism: Language & Cognition*. 25 (5)  
<https://doi.org/10.1017/s1366728922000244>
- **Han, X.**, Li, W., & Filippi, R. [in prep] The effects of code-switching and L2 proficiency on cognitive control in habitual and induced language use conditions.

## **TEACHING EXPERIENCE**

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10/2022 – 03/2023

**Senior Postgraduate Teaching Assistant**

*Faculty of Arts and Humanities, Arts and Sciences Department, Science and Engineering pathway, University College London*

BASC Module: Quantitative Methods 3: Models and Inference

BASC Module: Quantitative Methods and Mathematical Thinking

- Independently deliver R and quantitative method seminars and workshops;
- Independently delivery linear regression model lecture;
- Provide one-to-one R / Python tutorial on quantitative data analysis to students;
- Mark students' quantitative statistics reports and R / Python coding assignments

10/2020 – 09/2022

**Postgraduate Teaching Assistant**

*Department of Psychology and Human Development, Institute of Education, UCL's Faculty of Education and Society*

MA Psychology Education Module: Research Design and Methodology; BSc Psychology with Education Modules: Brain and Behaviour; Psychological Research

- Independently deliver BSc lectures and seminars;
- Assist MSc modules teaching;
- Independently prepare seminar and workshop teaching materials;
- Deliver SPSS and R seminars;
- Supervise postgraduates' psychological research project;
- Mark students' quantitative statistics reports and psychological research assignments

## **INVITED PRESENTATIONS & TALKS**

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**Guest Lecture**

03/2024 UK

Department of Linguistics, University College London

Psycholinguistics: Normal Stages of Language Development module -

“Cognitive benefits of being bilingual”

### ***Selected Individual paper presentations***

<b>03/2024 USA</b>	American Association for Applied Linguistics - AAAL 2024 Conference “Code-switching and L2 proficiency effects on cognitive control in habitual and induced language use conditions”
<b>06/2023 Australia</b>	The 14 <sup>th</sup> International Symposium of Bilingualism “Modulating bilingual language production and cognitive control: how bilingual language experience matters”
<b>05/2022 Italy</b>	Communication & Language Acquisition Studies in Typical & Atypical population Conference “Effects of bilingual language experience on bilinguals’ cognitive control in naturalistic language production”
<b>07/2021 Poland</b>	The 13 <sup>th</sup> International Symposium of Bilingualism “Effects of different language switching habits on bilingual cognitive control”

### ***Poster presentations:***

<b>09/2022 Belfast, UK</b>	British Association of Applied Linguistics-BAAL 2022 Conference
<b>02/2022 London, UK</b>	Growing Up Bilingual: Researcher and Practitioner Synergies seminar – <i>Sponsored by the British Psychological Society</i>

### ***Invited Plenary Talks:***

<b>11/2022 Montreal, Canada</b>	McGill University Plurilingual Lab GradTalk Topic: <i>Cognitive control in bilingual language processing: How bilingual language experience matters</i>
<b>05/2022 Macau, China</b>	2022 Macau University Centre of Cognitive and Brain Science Neuro Talk Salon Topic: <i>Investigation of cognitive control in bilingual language processing: How bilingual language experience matters</i>

## **RESEARCH RECOGNITION& IT SKILLS**

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### ***Reviewer:***

- Bilingualism: Language and Cognition
- Cognition
- Language and Cognition
- International Journal of Bilingual Education and Bilingualism
- Journal of Multilingual and Multicultural Development
- Language Development Research
- Second Language Research

### ***Member:***

- Member of the American Association for Applied Linguistics (AAAL)
- Member of the British Association for Applied Linguistics (BAAL)
- Member of British Neuropsychological Society

### ***Data analysis:***

R, Tableau, Statistical Parametric Mapping (SPM), SPSS

### ***Experiment Programming:***

Psychopy (Python), Eprime, jspsych (JavaScript), LabVanced

## **PUBLIC ENGAGEMENTS**

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<b>08/2021 Winsor, UK</b>	<b>UCL Funded Doctoral Participant</b> Cumberland Lodge Life Beyond the PhD 2021 Conference
<b>11/2019 – Present, UK</b>	<b>Research Member</b> Bilingualism Matters London Branch