

Yuhui Chen

University of Manchester, Department of Psychology

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EDUCATION

2021-2024

The University of Manchester

BSc Psychology (Hons)

Grade: 79 % (rank top 1% out of 433 students)

2019-2020

New Oriental International College

Ontario Secondary School Diploma

Advanced Functions (99), Biology (96), Mathematics of Data Management (99)

RESEARCH EXPERIENCE

2023 02 – Present

Affective Neuroscience of Socioeconomic Status (SES) and Mental Health

Undergraduate Research Assistant

Supervisor: Dr. Yu (Hannah) Hao, University of Pennsylvania

- Conducted an extensive literature review of over 200 articles on structural and functional MRI, SES, and depression, demonstrating strong knowledge in neuroscience and neuroimaging techniques.
- Synthesized detailed summaries on observed variations in cortical and subcortical regions under conditions of low socioeconomic status and depression, contributing key insights to the final manuscript.
- Co-authored a review on the neurobiological intersection of socioeconomic status and major depressive disorder, with a focus on fMRI evidence.

2022 11 – 2023 04

Interpersonal Emotion Regulation Lab, Manchester Centre for Health Psychology

Undergraduate Research Assistant

Supervisor: Dr. Belen Lopez-Perez, University of Manchester

Project 1: Interpersonal Emotional Regulation in Cross-Cultural Clinical Samples

- Conducted thematic analyses on 2500+ qualitative responses and coded them into quantitative codes.
- Utilised Python to produce quick calculation on discrepancies between coders, contributed largely to a quick calculation of Cohen's Kappa.
- Identified significant between-group differences using Latent Profile Analysis on MPlus as a leader of a team of three undergraduate research assistants.

Project 2: Changing Others' Emotions using EMAs Assessments

- Led the recruitment process, successfully enlisting 200 individuals for an intensive week-long study utilizing Ecological Momentary Assessments.
- Supervised the coordination and tracking of participant engagement during the 7-day study, maintaining a participation rate of over 50% by ensuring timely completion of assessments.
- Managed and executed data collection processes, resulting in a comprehensive dataset for subsequent statistical analyses.

2022 05 – Present

MAGNET LAB, Manchester Centre for Health Psychology

Undergraduate Research Assistant

Supervisor: Dr. Anna Hood, University of Manchester; Prof. Fenella Kirkham, University College London

Project 1: Index of Pain Experience in Sickle Cell Anaemia (IPESCA): feasibility of an mHealth App

Collaboration: Prof. Christina Liossi, University of Southampton

- Conducted an extensive reanalysis of existing data from a randomised-controlled clinical trial focused on children with Sickle Cell Anaemia
- Calculated IPESCA's feasibility to demonstrate an mHealth App's feasibility in clinical trials, as well as conducted exploratory analyses examining the relationship between pain burden and cognitive abilities
- Abstract accepted by a special issue, *Women in Science: Paediatric Pain on Frontiers in Pain Research*. Manuscript, with me as the first author, will be submitted for peer review by October

Project 2: The Interaction between Pain and Executive Function in Paediatric Patients with SCD

- Conducted a comprehensive analysis using a dataset from Alabama, US, to investigate the interplay between pain intensity and executive function in paediatric Sickle Cell Disease
- Developed a predictive model for executive function in SCD paediatric patients based on pain intensity.

COURSE PROJECTS

2021 11

Fast Movement in Relation to Animacy Effects in Episodic Memory

- Investigated the effect of fast movement on animacy effect by testing word recall by participants. Collected data from more than 200 participants at the University of Manchester
- Tidied and conducted ANOVA analyses on results, produced a 7-page full lab report.

2021 09

Basic Needs Satisfaction on Social Networking Sites – Scales Development

- Coded participants' responses according to SNS strategies and marked their life satisfaction. Tidying, analysing, and conducting reverse scoring on more than 500 lines of data
- Reviewed 50+ relevant literatures and produced a 5-page lab report, gained a top 5% grade.
- Clarified significant correlation between needs satisfaction on SNS and psychology wellbeing.

2021 03

Helmholtz Illusion in Interior Design Context

- Utilised VR-based websites to test whether direction of wallpaper stripes affect perception on room size. Collected data from 10 participants on Zoom.
- Discovered that participants' point of subjective equality was influenced by Helmholtz illusion. Results presented in a 5-page lab report with a First-Class score.

2020 12

Discrimination towards Gay People in Video Interviews

- Collected data on Zoom by showing a video of either homosexual or heterosexual man participating an interview.
- Found that gay participants experienced significantly more discrimination in video interview. Produced a 3-page lab report and received a First-Class score.

PRESENTATIONS

- **Yuhui Chen**, Anna M. Hood (2022, October). *Pain burden Predicts Executive Function in Paediatric Patients with Sickle Cell Disease*. Presented at the 17th Annual Scientific Conference on Sickle Cell and Thalassaemia. London, United Kingdom.
- **Yuhui Chen**, Anna M. Hood (2023). *Parent-reported Pain Intensity Predicts Cognitive Flexibility in Paediatric Patients with Sickle Cell Disease*. Presented at the European Paediatric Psychology Conference 2023. University of Stirling, Scotland, UK
- **Yuhui Chen**, Belen Lopez-Perez, Shixing Cheng, Aparna M. Ajay (2023). *Evaluating the correspondence between qualitative and quantitative measures to assess interpersonal emotion regulation strategies*. Presenting at the British Psychological Society Social Psychology Section Annual Conference 2023. Scotland, United Kingdom.

PUBLICATIONS

- **Yuhui Chen**, Anna M. Hood, Melanie Kölbel, Hanne Stotesbury, Jamie Kawadler, April Slee, Baba Inusa, Maria Pelidis, Jo Howard, Subarna Chakravorty, Sue Height, Moji Awogbade, Fenella J. Kirkham and Christina Liossi (abstract). *Pain Burden Predicts Executive Function in Patients with Sickle Cell Disease*. *HemaSphere* 7(S1): p 11, April 2023. DOI: 10.1097/01.HS9.0000928208.78994.35
- Anna M. Hood, Aqsa Chaman, **Yuhui Chen**, Sarah Mufti. *Submitted to Paediatric Hematology & Oncology, under review*. Psychological Wellbeing Predicts Quality of Life among Pakistani Caregivers of Children Living with Thalassaemia.

MANUSCRIPTS IN PREPARATION

*Authors contributed equally to this work/joint senior authors

- **Yuhui Chen**, Anna M. Hood, Jamie M. Kawadler, April Slee, Hanne Stotesbury, Melanie Koelbel, Philippa Balfour, Dawn E. Saunders, David Rees, Jo Howard, Baba Inusa, Maria Pelidis, Rachel Kesse-Adu, Subarna Chakravorty, Moji Awogbade, Chris A. Clark, *Fenella J. Kirkham & *Christina Liossi. *In preparation, submitting to Frontiers in Pain Research*. Index of Pain Experience in Sickle Cell Anaemia (IPESCA): Development from daily pain diaries and initial findings from use with children and adults with sickle cell anaemia
- **Yuhui Chen**, Anna M. Hood, Avi Madan-Swain, Deanna D. Rumbic, Tine Vervoort, Lori E. Crosby, Jeffrey Lebensburger, Megan M. Miller, Zina Trost. *In preparation*. Pain inequality and cognition in paediatric patients with sickle cell disease.
- Yu Hao, **Yuhui Chen**, Martha Farah. *In preparation, submitting to Nature Mental Health*. Depression phenotype and risk factors in relation to brain structure or function: relation to SES status.
- Belen Lopez-Perez, **Yuhui Chen**, Shixing Cheng. *In preparation*. Evaluating the correspondence between qualitative and quantitative measures to assess interpersonal emotion regulation strategies in cross-cultural samples.
- Belen Lopez-Perez, **Yuhui Chen**, Shixing Cheng. *In preparation*. Identifying subgroups in utilising interpersonal emotion regulation strategies from cross-cultural samples.

SCHOLARSHIP AND AWARDS

2021 **Ontario Secondary School President's List**
Amount: \$200

VOLUNTEER

| | |
|-------------------|---|
| 2022 09 - Present | University of Manchester – Buddy Scheme Mentor <ul style="list-style-type: none"> • Provided one-to-one mental health support for first year students. • Applied professional knowledge of mental health and counselling into practice. • Followed safeguarding procedures and escalating emergent situations to staff. |
| 2022 06 - Present | University of Manchester – Peer Mentor <ul style="list-style-type: none"> • Provided continuous academic and life support for a group of mentees (20 people). • Designed academic writing sessions (APA reference, essays and lab reports) and provided writing samples. |
| 2022 06 - Present | ReachOut Manchester – Volunteer Tutor <ul style="list-style-type: none"> • Facilitated young people by providing a 2-hour one-to-one meeting each week. • Delivered English and Maths activities as well as mental health support. • Acted as role model and help a mentee grow in confidence and character |
| 2022 06 – Present | Under-represented Student Perspective Panel <ul style="list-style-type: none"> • Actively engaged in regular dialogues and meetings with university officials, pushing for policies that support their academic and social wellbeing. • Leveraged my personal perspective as an Asian female student to shed light on potential biases and challenges faced, offering tangible solutions. • Spearheaded discussions and initiatives focused on improving the representation and inclusivity of diverse voices in academic, social, and policy-making platforms within the university. |

ADDITIONAL SKILLS & INTERESTS

IT:

- Statistics Analyses: Excel, SPSS (parametric and non-parametric tests), MPlus (Latent Profile Analysis)
- Programming: R packages and Python (intermediate certificates achieved on DataCamp)

Languages:

- English: IELTS 8.0, GRE Verbal 157 (top 26%), GRE Quantitative 164 (top 22%), Analytical Writing 4.5 (top 21%)
- Chinese: Native

References available on request

Dr. Anna Hood: anna.hood@manchester.ac.uk

Dr. Belen Lopez-Perez: belen.lopez-perez@manchester.ac.uk

Dr. Doron Cohen: doron.cohen@manchester.ac.uk

Dr. Yu (Hannah) Hao: hhao@sas.upenn.edu