

## 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)  
Relevant modules: Statistics and Data Analysis (98), Brain and Behaviour (79), Cognition (82), Cognitive Neuroscience (78), Language Mind and Brain (84)
- 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 17<sup>th</sup> 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 Thalassemia.

## 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**

- 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**

- 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**

- 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**

- 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](mailto:anna.hood@manchester.ac.uk)

Dr. Belen Lopez-Perez: [belen.lopez-perez@manchester.ac.uk](mailto:belen.lopez-perez@manchester.ac.uk)

Dr. Doron Cohen: [doron.cohen@manchester.ac.uk](mailto:doron.cohen@manchester.ac.uk)

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