

# Ili Ma

Department of Developmental and Educational psychology

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## ACADEMIC POSITIONS

- Nov 2020 – present**      **Assistant Professor**  
Leiden University  
Department of Developmental and Educational Psychology
- Sept 2018 – Nov 2020**      **Postdoctoral NWO Rubicon fellow**  
New York University  
Advisors: prof. Todd Gureckis and prof. Wei Ji Ma
- July 2016 – Sept 2018**      **Postdoctoral researcher**  
Donders Centre for Cognitive Neuroimaging, Radboud University  
Advisor: prof. Alan Sanfey
- Sept 2015 - July 2016**      **Research scientist**  
Behavioral Science Institute, Radboud University and Free University Amsterdam  
Advisor: prof. Antonius H.N. Cillessen, prof. Pol A.C. van Lier
- Jan 2008 - Aug 2009**      **Research assistant**  
Department of Psychopharmacology, Maastricht University  
Advisor: dr. Anke Sambeth
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## EDUCATION

- Jan 2017**      **Ph.D. Clinical Developmental Psychology**  
Thesis: The interplay between motivation and inhibition in ADHD  
Radboud University, the Netherlands  
Advisors: dr. Anouk Scheres, dr. Gabry W. Mies, prof. Antonius H.N. Cillessen
- July 2010**      **Masters of Science in Neuropsychology**  
Maastricht University, the Netherlands
- July 2010**      **Research Intern in Psychopharmacology & Neuroimaging**  
Maastricht University, the Netherlands  
Advisor: dr. Lisbeth Evers

July 2009

Bachelor of Science in Biological psychology  
Maastricht University, the Netherlands

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## RESEARCH INTERESTS

I am broadly interested in the computational and neurocognitive mechanisms underlying learning and social decision making, especially applied to cognitive development, and psychiatric disorders. I use neuroimaging and computational modelling of behavior to acquire a mechanistic understanding of these topics. I am specifically interested in uncertainty and Bayesian computational modelling of active social information gathering strategies and complex decision-making.

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## PUBLICATIONS

### Published

- **Ma, I.**, Sanfey, A. G., & Ma, W. J. The Social Cost of Information Gathering for Trust Decisions. *Scientific Reports*. <https://doi.org/10.1038/s41598-020-69766-6>
- Asscheman, J. S., Koot, S., **Ma, I.**, Buil, J. M., Krabbendam, L., Cillessen, A. H., & van Lier, P. A. (2019). Heightened neural sensitivity to social exclusion in boys with a history of low peer preference during primary school. *Developmental Cognitive Neuroscience*, 100673.
- Huijsmans, I., **Ma, I.**, Micheli, L., Civai, C., Stallen, M., & Sanfey, A. G. (2019). A scarcity mindset alters neural processing underlying consumer decision making. *Proceedings of the National Academy of Sciences*, 116(24), 11699-11704.
- Mies, G. W., **Ma, I.**, de Water, E., Buitelaar, J. K., Scheres, A. (2018) Waiting and working for rewards: Attention-Deficit/Hyperactivity Disorder is associated with steeper delay discounting linked to amygdala activation, but not with steeper effort discounting. *Cortex*, in press.
- de Water, E., Mies, G. W., **Ma, I.**, Mennes, M., Cillessen, A.H.N., & Scheres, A. (2017). Neural responses to social exclusion in adolescents: effects of peer status. *Cortex*, 92, 32-43.
- **Ma, I.**, Mies, G. W., Rommelse, N., Buitelaar, J., & Scheres, A. (2017). Does an attention bias to appetitive and aversive words modulate interference control in youth with ADHD? *Child Neuropsychology*, 1-17.
- Civai, C., **Ma, I.** The enhancement of social norm compliance: prospects and caveats (2017). *Journal of Cognitive Enhancement*, 1, 26-30.

- **Ma, I.**, Rommelse, N., Buitelaar, J., Cillessen, A.H.N., & Scheres, A. (2017). Decision-making in social contexts in youth with ADHD, *European Child and Adolescent Psychiatry*, 1-10.
- **Ma, I.**, van Holstein, M., Mies, G. W., Mennes, M., Buitelaar, J., Cillessen, A.H.N., Cools, R., & Scheres, A. (2016). Ventral striatal hyperconnectivity during rewarded interference control in adolescents with ADHD, *Cortex*, 82, 225-236.
- **Ma, I.**, van Duijvenvoorde, A.C.K., & Scheres, A. (2016). The interaction between reinforcement and inhibitory control in children and adolescents with ADHD: a review and research guidelines, *Clinical Psychology Review*, 44, 94-111.
- **Ma, I.** (2016). The interplay between motivation and inhibition in ADHD. PhD thesis. Radboud University Nijmegen, the Netherlands.

### Under review

- **Ma, I.**, Westhoff, B., & van Duijvenvoorde, A. C. K. (2020). The Cognitive Mechanisms That Drive Social Belief Updates During Adolescence. *bioRxiv*.  
<https://doi.org/10.1101/2020.05.19.105114>

### AWARDS

- 2020 National Science Foundation sub award (\$90.000 USD)
- 2019 New York University Arts & Science travel award
- 2018 Rubicon Fellowship (134.764 euro), Netherlands Organization for Scientific Research (NWO). Full funding for a 2-year postdoctoral fellowship at New York University. Title: Active social learning and decision making: A Bayesian computational modelling approach
- 2013 EUNETHYDIS International Conference on ADHD Best poster award
- 2010 3rd International congress on ADHD Best poster award

### TEACHING

#### *Current*

- Leiden University: Coordinator Developmental and Educational Psychology (BSc)
- Leiden University: Lecture on the adolescent brain (BSc)
- Leiden University: Seminar tutor on Perspective on Career Planning (BSc)
- Leiden University: Master thesis and research internship supervision (MSc)
- Leiden University: Bachelor thesis and research internship supervision (BSc)

## *Past*

- New York University: Tutorial on online experiment platforms
  - New York University: Tutorial on Monte Carlo Tree Search
  - Tilburg University: Guest lecture on the neurobiology of memory, reinforcement, and addiction (BSc)
  - Radboud University: Master thesis and internship supervision for Research Master 'Cognitive & Clinical Neuroscience (MSc, 1 student)
  - Radboud University: Master thesis and research internship supervision for Master track 'mental health psychology' (MSc, 4 students)
  - Radboud University: Bachelor thesis and research internship supervision (BSc, 20 students)
  - Radboud University: Thesis and research internship supervision biomedical sciences minor (BSc, 1 student)
  - Radboud University: Teaching assistant for General Introduction to Psychology I Social psychology (BSc)
  - Radboud University: Teaching assistant for General Introduction to Psychology II Brain and psychology (BSc)
  - Radboud University: Teaching assistant Introduction to the Brain: Anatomy Practicum (BSc)
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## **SKILLS**

- Data analysis: SPSS and R
  - fMRI analyses: SPM
  - Programming: MATLAB, Python, Presentation, C#, Unity, JavaScript
  - Computational modelling of behavior (e.g., Dynamic programming, Monte Carlo Tree Search)
  - Network analyses
  - Neuropsychological testing
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## **RECENT INVITED TALKS**

- Dartmouth University (2020 Social Brown Bag invited talk)
- George Washington University (2020 invited talk)
- Princeton University (2019 Neuroscience and social decision-making talk series)
- Brown University (2019 invited talk)
- University of Vienna (2018 invited talk)

- University College London (2018 invited talk)
  - University of Düsseldorf (2017 summer talk series on decision neuroscience)
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### **SELECTED CONFERENCE TALKS AND POSTERS**

- Symposium on the Biology of Decision-Making (SBDM, 2019, poster)
  - Nederlandse Vereniging voor Psychonomie (NvP, 2019, talk)
  - Reinforcement Learning and Decision-Making (RLDM, 2019, poster)
  - Society for Neuroeconomics (2018, poster)
  - Computational Cognitive Neuroscience (CCN, 2017, poster)
  - Society for Neuroeconomics (2017, poster)
  - Society for Neuroeconomics (2016, poster)
  - Symposium on the Behavioural Science of ADHD (2016, talk)
  - Belgian Association for Psychological Science (2015, talk)
  - Dutch Neuroscience Meeting (2015, talk)
  - FLUX (2015, poster)
  - Annual Meeting of the International Society for Research on Impulsivity (2015, poster)
  - EUNETHYDIS ADHD conference (2013, poster)
  - EUNETHYDIS ADHD conference (2012, poster)
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### **REVIEWING**

I have reviewed papers for multiple journals, including: Biological Psychiatry, Cognitive Affective Behavioral Neuroscience, Brain Imaging and Behavior, Developmental Cognitive Neuroscience, and Neuroimage.