



# Dominique Makowski

LECTURER IN PSYCHOLOGY

University of Sussex, Brighton, UK

✉ [D.Makowski@sussex.ac.uk](mailto:D.Makowski@sussex.ac.uk) | 🏠 [dominiquemakowski.github.io](https://dominiquemakowski.github.io) | 📷 [DominiqueMakowski](#) | 🐦 [Dom\\_Makowski](#)

*Trained as a neuropsychologist, I am an assistant professor at the University of Sussex researching aspects of reality bending (e.g., neuroscience of deception, perception of fake news, altered states of consciousness), the role of the body and emotions in cognition (e.g., emotion regulation and interoception), and methodology (statistics, programming, and neurophysiological techniques).*

## Education

### Doctor of Philosophy (PhD) - Psychology

France

UNIVERSITÉ DE PARIS

2014 - 18

- Thesis: Cognitive Neuropsychology of Implicit Emotion Regulation through Fictional Reappraisal (supervised by [Pr Serge Nicolas](#) & [Pr Pascale Piolino](#))

### Certified Psychotherapist - Cognitive Behavioural Therapy (CBT)

France

FRENCH ASSOCIATION FOR COGNITIVE BEHAVIOURAL THERAPY (AFTCC)

2014 - 17

- Thesis: Cognitive Behavioural Therapy for two Patients: One suffering from Motivation Disorder associated with Dysthymia and the other from Social Anxiety (supervised by Sophie Kindynis)

### Master of Science (MSc) - Clinical Neuropsychology and Cognitive Psychology

France

UNIVERSITÉ DE PARIS

2012 - 14

- Second year thesis: How the Study of Emotions in Schizophrenia enlight the Paradox of Fiction (supervised by [Pr Pascale Piolino](#))
- First year thesis: The Cognitive Development of the Aesthetic Judgement in Children and Adults (supervised by [Pr Sandrine Rossi](#))

### Bachelor of Science (BSc) - Psychology

France

UNIVERSITÉ DE PARIS

2009 - 12

## Experience

### RESEARCH

#### Assistant Professor

UK

SCHOOL OF PSYCHOLOGY, UNIVERSITY OF SUSSEX

2023 - Present

- Full teaching service on courses such as Bayesian Statistics and Psychophysiology.
- Head of the [Reality Bending Lab](#) (ReBeL) where we study reality perception (e.g., neuroscience of deception, perception of fake news, altered states of consciousness), the role of the body and emotions in cognition (e.g., emotion regulation and interoception), and methodology (statistics, programming, open source software and neurophysiological techniques).

#### Presidential Research Fellow

Singapore

CLINICAL BRAIN LAB, NANYANG TECHNOLOGICAL UNIVERSITY (NTU)

2021 - 22

- The NTU "presidential postdoc fellowship" is a competitive two-years grant meant as an intermediate step between postdoc and faculty. While integrated within a larger lab (the [Clinical Brain Lab](#), directed by [Pr Annabel Chen](#), I am pursuing my own research track on the neurocognitive and affective processes underlying the beliefs in fake vs. real stimuli (fake news, fiction, ...), managing my team (3 research assistants, and several undergrad students) and research funding (\$ 200k). I am involved in all the research and administrative aspects of the project (writing IRBs, project budgeting, experiment creations, data collection, analysis, manuscript writing, ...).

#### Research Fellow

Singapore

CLINICAL BRAIN LAB, NANYANG TECHNOLOGICAL UNIVERSITY (NTU)

2019 - 20

- First postdoc position, working on a project funded by the ministry of defence about the neurocognitive correlates of deception. Responsible for studies design and completion, data analysis, publications and co-supervision of one PhD student, two research assistants and several graduate and undergraduate students (reference: [Pr Annabel Chen](#)).

#### Research Assistant

Paris, France

DEVELOPMENTAL PSYCHOLOGY LAB (LAPSYDÉ), UNIVERSITÉ DE PARIS

2012

- Data collection for a study ([Borst, 2016](#)) on emotions and mental rotation (reference: [Pr Grégoire Borst](#)).

## Research Assistant

Paris, France

MEMORY & COGNITION LAB (LMC), UNIVERSITÉ DE PARIS

2011

- Experiment creation and data collection for a study on memory, salience and bizarreness effect (reference: [Pr Serge Nicolas](#)).

## TEACHING

### Invited Instructor (Psychophysiology)

Zürich, Switzerland

UNIVERSITY OF BASEL

2024

- Full-day workshop (8 h; PhD students): Recording, Analyzing and Using Physiological Signals in Psychology. Reference: [Dr Dorothee Bentz](#).

### Invited Instructor (Programming and Data Science)

Zürich, Switzerland

UNIVERSITY OF ZÜRICH

2022

- Online workshop (24 h; PhD students): Advanced Python programming for signal processing and data analysis. Reference: [Dr Maike Krannich](#).

### Assistant Lecturer (Clinical Neuropsychology)

Paris, France

UNIVERSITÉ DE PARIS

2017 - 18

- Modules (192 h; bachelor & master students): Neurology and psychiatry (main neurodegenerative, neurological and psychiatric disorders), assessment (examination, diagnostic, psychometry), rehabilitation and psychotherapy (CBT, mindfulness-based therapies, cognitive rehabilitation, practice supervision), general neuroscience and psychology (neuroanatomy, emotion regulation...). Reference: [Pr Isabelle Jambaque](#).

### Teaching Assistant (Differential Cognitive Psychology)

Paris, France

UNIVERSITÉ DE PARIS

2015 - 17

- Modules (144 h; 1st & 2nd year students): Experimental methodology (assessment and related problems, scientific reasoning, psychometric properties of tests and questionnaires, statistics...) and introduction to concepts such as intelligence, personality and creativity. Reference: Dr Christophe Mouchiroud.

### Teaching Assistant (Cognitive Psychology)

Paris, France

UNIVERSITÉ DE PARIS

2014 - 16

- Modules (48 h; 3rd year students): Models of working memory, mental imagery and categorisation. Reference: [Pr Todd Lubart](#).

## CLINICAL

### Assistant Neuropsychologist

Paris, France

DEPARTMENT OF ADULT PSYCHIATRY, PITIÉ-SALPÊTRIÈRE HOSPITAL

2013 - 14

- Neuropsychology internship (512 h) under [Dr Séverine Hatif](#). Assessment and diagnostic of psychiatric or neurological illnesses among adults, as well as development and application of cognitive rehabilitation programs.

### Assistant Neuropsychologist

Paris, France

DEPARTMENT OF GERIATRIC PSYCHIATRY, SAINTE-ANNE HOSPITAL

2012 - 13

- Neuropsychology internship (304 h) under Emmanuel Guiliano. Assessment and diagnostic of psychiatric and neurological illnesses among an elderly population.

### Assistant Neuropsychologist

Versailles, France

DEPARTMENT OF GERONTOLOGY, LA PORTE VERTE HOSPITAL

2012

- Neuropsychology internship (96 h) under Sophie Fleury. Observation of assessment and diagnostic of memory related deficits such as neurodegenerative diseases, somatic ageing-related illnesses or depression.

## Skills

### LANGUAGE

- **French:** Native
- **Polish:** Native
- **English:** Fluent
- **Italian:** B1 level (currently learning)

### TECHNIQUES AND METHODS

I have developed strong technical expertise with several tools (EEG, bodily signals, Virtual Reality) and methods. In particular, I employ advanced statistical procedures (Bayesian framework, predictive and structural modelling, machine/deep learning) to address the scientific challenges that I encounter. In parallel, I develop open-source software, such as the [easystats](#) collection of R packages; [NeuroKit](#), a Python package for neurophysiological signal processing; [Pyllusion](#), a framework to generate visual illusions; or [Neuropsychia](#), a software to create experiments.

Initially created to increase the efficiency and quality of my own research, some of these tools have become quite popular and are actively used by the scientific community (e.g., the *easystats* packages have been downloaded more than 5 million times since their creation about 3 years ago, and *NeuroKit* has become one of the most popular toolbox for multimodal physiology).

## OPEN SCIENCE

My interest in improving accessibility, widening the usage of advanced methods and best practices by means of open access tools and tutorials, and staying active in open-software communities (e.g., on [GitHub](#) by answer technical and methodological questions, is motivated by the fact that, coming myself from a different background (clinical neuropsychology) in which programming, computer science and advanced statistics are not taught, I realized how harnessing such powerful tools can improve one's research (and quality of life) at many levels.

I fully endorse to the highest standards of open science, by sharing data and reproducible scripts of my experiments. Naturally, my concrete engagement in open, honest and reproducible science, is accompanied by the highest standards in terms of methodological rigour and ethical responsibility.

## Additional Training

---

### TEACHING

#### CITI Certification

COLLABORATIVE INSTITUTIONAL TRAINING INITIATIVE (ETHICS AND SCIENTIFIC INTEGRITY IN RESEARCH)

[Online](#)

2019

#### Academic Teaching Certificate

UNIVERSITÉ DE PARIS (40H TRAINING IN PEDAGOGY AND INNOVATIVE TEACHING)

[France](#)

2017

### CLINICAL

#### Certified Hypnotherapist

NATIONAL GUILD OF HYPNOTISTS (100H - NOTE THAT ALTHOUGH TRAINED AND QUALIFIED, I DO NOT ENDORSE HYPNOSIS)

[Singapore](#)

2019

#### Mindfulness based on Compassion and Insight (MBCI)

INSTITUTE FOR PSYCHIATRY, SAINTE-ANNE HOSPITAL (16H MASTER CLASS)

[France](#)

2016

#### First Aid Certificate

UNIVERSITÉ DE PARIS (16H - LEVEL 1)

[France](#)

2016

### NEUROIMAGING

#### Structural, Functional and Radiological Neuroanatomy

NEUROCOURSES UK (32H)

[Online](#)

2020

#### MRI Connectivity Analysis

NATIONAL INSTITUTE OF NUCLEAR SCIENCES & TECHNIQUES - INSTN (32H)

[Marseille, France](#)

2015

#### fMRI : Preprocessing and Analysis

SAINTE-ANNE HOSPITAL (32H)

[Paris, France](#)

2014 - 15

#### Signal Processing Theory and Application for EEG

ÉCOLE SUPÉRIEURE DE PHYSIQUE ET DE CHIMIE INDUSTRIELLE - ESPCI (24H)

[Paris, France](#)

2014

### STATISTICS AND PROGRAMMING

#### Creating Online Experiments in PsychoPy and Pavlovia

UNIVERSITY OF NOTTINGHAM (24H)

[Online](#)

2020

#### Scientific Programming with Python and Software Engineering Best Practices

TELECOM PARISTECH (16H)

[Paris, France](#)

2016

#### P4N: Python for Neuroscience (and Psychology)

UNIVERSITY OF NOTTINGHAM (24H)

[Nottingham, UK](#)

2016

#### Machine Learning and Brain-to-Computer Interfaces

ÉCOLE SUPÉRIEURE DE PHYSIQUE ET DE CHIMIE INDUSTRIELLE - ESPCI (16H)

[Paris, France](#)

2014

### MISCELLANEOUS

#### History of Arts

ÉCOLE DU LOUVRE (74H)

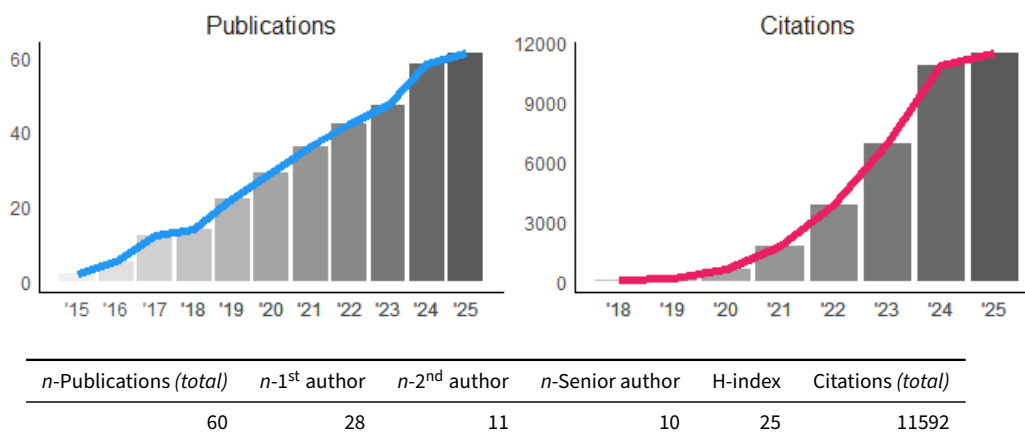
[Paris, France](#)

2017- 18

## Research Track Record

---

### SCIENTIFIC IMPACT



GRANTS

<b>TL@NTU’s Behavioural and Communication Science Programme (BCSP) Grant (co-PI)</b>	\$915,427
COGNITIVE, NEURAL AND SOCIAL FACTORS INVOLVED IN THE PERCEPTION OF REAL VS. FAKE INFORMATION	2022 - 25
<b>Singapore National Research Foundation’s Intra-CREATE Grant (co-PI)</b>	\$249,730
A NEUROSCIENTIFIC INVESTIGATION OF THE INTERACTION BETWEEN CROWDEDNESS AND ENVIRONMENT TYPOLOGY (NICE)	2021 - 22
<b>NTU Presidential Postdoctoral Fellowship (PI)</b>	\$360,000
’THAT’S FAKE NEWS’: MODULATING THE NEUROCOGNITIVE PROCESSES UNDERLYING THE BELIEF IN DECEPTIVE INFORMATION	2020 - 22
<b>Ministerial PhD scholarship</b>	€80,000
THREE YEARS OF PhD FULLY FUNDED BY THE FRENCH MINISTRY OF RESEARCH	2014 - 17

AWARDS

<b>Sussex School of Psychology 2024 Award Winner</b>	N/A
OUTSTANDING STUDENT SUPERVISION	2024
<b>Mission Award (Society for the Improvement of Psychological Science - SIPS)</b>	N/A
OBTAINED FOR THE NEUROKIT PYTHON PACKAGE	2024
<b>University of Sussex Research Culture 2024 Awards Winner</b>	£1,000
FOR ENGAGEMENT IN OPEN SCIENCE	2024
<b>Mission Award (Society for the Improvement of Psychological Science - SIPS)</b>	N/A
OBTAINED FOR THE EASYSTATS COLLECTION OF R PACKAGES	2023
<b>Best Article Award (Psychonomic Society)</b>	\$1,000
OBTAINED FOR <a href="#">MAKOWSKI ET AL. (2019)</a>	2020
<b>Commendation (Society for the Improvement of Psychological Science - SIPS)</b>	N/A
OBTAINED FOR THE BAYESTESTR R PACKAGE ( <a href="#">MAKOWSKI ET AL., 2019</a> )	2020

EDITORIAL RESPONSIBILITIES

<b>Associate Editor</b>	
FRONTIERS IN PSYCHOLOGY: <i>Quantitative Psychology and Measurement</i>	2020 - present
<b>Regular Reviewer</b>	
JOURNAL OF OPEN SOURCE SOFTWARE	2018 - present
<b>Reviewer</b>	
BIOLOGICAL PSYCHIATRY, PERSONALITY AND INDIVIDUAL DIFFERENCES, SCIENTIFIC REPORTS, ACTA PSYCHOLOGICA, ...	2017 - present

ACADEMIC RESPONSIBILITIES

<b>Elected Representative</b>	<a href="#">ED261-3CH doctoral school</a>
REPRESENTATION OF THE PhD STUDENTS AT THE UNIVERSITY LEVEL	2016 - 18
<b>Community Manager</b>	<a href="#">Memory &amp; Cognition Lab</a>
ORGANIZATION OF SEMINARS, LOCAL CONFERENCES AND SOCIAL EVENTS	2014 - 15
<b>Active Member</b>	<a href="#">Student Association (BDE)</a>
ORGANIZATION OF SOCIAL EVENTS FOR STUDENTS	2009 - 12

Teaching Record

ACADEMIC

I have given academic lectures (total hours since 2014: **424**) on the following topics:

- **Bayesian Statistics**
  - Bayesian framework
  - Bayesian models with the *brms* R package
- **Signal Processing**
  - Bodily signals acquisition and preprocessing
  - Heart rate
  - Electrodermal activity
- **Psychophysiology and Interoception**
  - Embodied Cognition
  - Interoceptive Models
  - Psychophysiology
  - Heart rate variability
- **Neuropsychology** (192 hours; 2nd year, 3rd year and master level)
  - Clinical Neuropsychology (Neuropsychological syndromes; Neuropsychological examination and diagnostic; Cognitive rehabilitation; Clinical practice supervision; Neuropsychology in psychiatry)
  - Cognitive Neuroscience (Neuroanatomy; Emotion Regulation; Mindfulness; Memory; Neuroimaging)
- **Differential Psychology** (144 hours; 1st year level)
  - Hands-on Lectures (Experimental Methodology; Scientific Reasoning; Psychometric properties of tests and questionnaires; Introductory Statistics)
  - Theory (Intelligence; Personality; Creativity)
- **Cognitive Psychology** (48 hours; 3rd year level)
  - Working memory
  - Mental imagery and categorisation
- **Programming for Psychologists** (24 hours)
  - Python Programming
  - Experiment creation using Python
- **Other** (16 hours): Internet; Research Ethics; Digital Rights

## Publications

---

### REALITY PERCEPTION AND MANIPULATION

**Makowski, D.**, Te, A. S., Neves, A., Kirk, S., Liang, N. Z., Mavros, P., & Chen, S. A. (2025). Too beautiful to be fake: Attractive faces are less likely to be judged as artificially generated. *Acta Psychologica*, 252, 104670.

Dickinson, R., **Makowski, D.**, van Marwijk, H., & Ford, E. (2024). Exploring the Role of News Outlets in the Rise of a Conspiracy Theory: Hydroxychloroquine in the Early Days of COVID-19. *COVID*, 4(12), 1873-1896.

**Makowski, D.**, Lau, Z. J., Pham, T., Te, A. S., Kirk, S., Liauw, C., & Chen, S. A. (2024). The heart can lie: a preliminary investigation of the role of interoception and theory of mind in deception. *Current Psychology*, 1-12.

**Makowski, D.**, Te, A. S., Kirk, S., Liang, N. Z., & Chen, S. A. (2023). A novel visual illusion paradigm provides evidence for a general factor of illusion sensitivity and personality correlates. *Scientific Reports*, 13(1), 6594.

**Makowski, D.**, Lau, Z. J., Pham, T., Boyce, W. P. & Chen, S. A. (2021). A Parametric Framework to Generate Visual Illusions using Python. *Perception*, 50(11), 950-965.

**Makowski, D.**, Pham, T., Lau, Z. J., Raine, A., & Chen, S. H. (2021). The Structure of Deception: Validation of the Lying Profile Questionnaire. *Current Psychology*, 1-16.

**Makowski, D.**, Sperduti, M., Pelletier, J., Blondé, P., La Corte, V., Arcangeli, M., Zalla, T., Lemaire, S., Dokic, J., Nicolas, S., & Piolino, P. (2019). Phenomenal, Bodily and Brain Correlates of Fictional Reappraisal as an Implicit Emotion Regulation Strategy. *Cognitive, Affective, & Behavioral Neuroscience*, 19(4), 1-21.

**Makowski, D.\***, Sperduti, M.\*, Nicolas, S. & Piolino, P. (2017). “Being there” and remembering it: Presence improves Memory Encoding. *Consciousness & Cognition*, 53, 194–202.

Sperduti, M.\*, **Makowski, D.\***, Arcangeli, M., Wantzen, P., Zalla, T., Lemaire, S., Dokic, J., Pelletier, J. & Piolino, P. (2017). The Distinctive Role of Executive Functions in Implicit Emotion Regulation. *Acta Psychologica*, 173, 13-20.

Tuena, C., Serino, S., Gaston-Bellegarde, A., Orriols, E., **Makowski, D.**, Riva, G. & Piolino, P. (2017). How Virtual Embodiment Affects Episodic Memory Functioning: a Proof-of-Concept Study, *Annual Review of Cybertherapy and Telemedicine*, 15, 93-107.

Sperduti, M.\*, Arcangeli, M.\*, **Makowski, D.**, Wantzen, P., Zalla, T., Lemaire, S., Dokic, J., Pelletier, J. & Piolino, P. (2016). The paradox of fiction: Emotional response toward fiction and the modulatory role of self-relevance. *Acta psychologica*, 165, 53-59.

### NEUROPHYSIOLOGY, EMOTION REGULATION AND INTEROCEPTIVE PROCESSES

Lau, Z. J.\*, Pham, T.\*, Chen, S. A., & **Makowski, D.** (2022). Brain Entropy, Fractal Dimensions and Predictability: A Review of Complexity Measures for EEG in Healthy and Neuropsychiatric Populations. *European Journal of Neuroscience*, 56(7), 5047-5069.

**Makowski, D.**, Te, A. S., Pham, T., Lau, Z. J., & Chen, S. H. (2022). The Structure of Chaos: An Empirical Comparison of Fractal Physiology Complexity Indices Using Neurokit2. *Entropy*, 24(8), 1036.

Pham, T., Lau, Z. J., Chen, S. H. A., & **Makowski, D.** (2021). Heart Rate Variability in Psychology: A Review of HRV Indices and an Analysis Tutorial. *Sensors*, 21(12), 3998.

**Makowski, D.**, Pham, T., Lau, Z. J., Brammer, J. C., Lespinasse, F., Pham, H., Schötzel, C., & Chen, S. A. (2021). NeuroKit2: A Python Toolbox for Neurophysiological Signal Processing. *Behavior Research Methods*, 1-8.

**Makowski, D.**, Sperduti, M., Blondé, P., Nicolas, S., & Piolino, P. (2019). The heart of cognitive control: Cardiac phase modulates processing speed and inhibition. *Psychophysiology*, 57(3).

**Makowski, D.**, Sperduti, M., Lavallée, S., Nicolas, S., & Piolino, P. (2019). Adaptation and Validation of a Short French Version of the Affective Style Questionnaire. *International Journal of Cognitive Therapy*, 13(2), 146–158.

**Makowski, D.**, Sperduti, M., Lavallée, S., Nicolas, S., & Piolino, P. (2019). Dispositional mindfulness attenuates the emotional attentional blink. *Consciousness & Cognition*, 67, 16–25.

**Makowski, D.**, Sperduti, M., Blanchet, S., Nicolas, S., & Piolino, P. (2015). Régulation Emotionnelle face au Déclin Cognitif dans le Vieillessement : Un Faux Paradoxe ? | Emotion regulation and the cognitive decline in aging: beyond the paradox. *Gériatrie et Psychologie Neuropsychiatrie du Vieillessement*, 13(3), 301-8.

## STATISTICS

**Makowski, D.**, & Waggoner, P. D. (2023). Where are we going with statistical computing? From mathematical statistics to collaborative data science. *Mathematics*, 11(8), 1821.

Thériault, R., Ben-Shachar, M. S., Patil, I., Lüdecke, D., Wiernik, B. M., & **Makowski, D.** (2024). Check your outliers! An introduction to identifying statistical outliers in R with easystats. *Behavior Research Methods*, 1-11.

Patil, I., **Makowski, D.**, Ben-Shachar, M. S., Wiernik, B. M., Bacher, E., & Lüdecke, D. (2022). datawizard: An R Package for Easy Data Preparation and Statistical Transformations. *Journal of Open Source Software*, 7(78), 4684.

Lüdecke, D., Patil, I., Ben-Shachar, M., Wiernik, B., Waggoner, P., & **Makowski, D.** (2021). see: An R Package for Visualizing Statistical Models. *Journal of Open Source Software*, 6(64), 3393.

Lüdecke, D., Ben-Shachar, M., Patil, I., Waggoner, P., & **Makowski, D.** (2021). performance: An R Package for Assessment, Comparison and Testing of Statistical Models. *Journal of Open Source Software*, 6(60), 3139.

Ben-Shachar, M. S., Lüdecke, D., & **Makowski, D.** (2020). effectsize: Estimation of Effect Size Indices and Standardized Parameters. *Journal of Open Source Software*, 5(56), 2815.

Lüdecke, D., Ben-Shachar, M. S., Patil, I., & **Makowski, D.** (2020). parameters: Extracting, Computing and Exploring the Parameters of Statistical Models using R. *Journal of Open Source Software*, 5(53), 2445.

**Makowski, D.**, Ben-Shachar, M. S., Patil, I., & Lüdecke, D. (2020). Methods and Algorithms for Correlation Analysis in R. *Journal of Open Source Software*, 5(51), 2306.

**Makowski, D.**, Ben-Shachar, M. S., Chen, S. H., & Lüdecke, D. (2019). Indices of Effect Existence and Significance in the Bayesian Framework. *Frontiers in Psychology*, 10.

**Makowski, D.**, Ben-Shachar, M., & Lüdecke, D. (2019). bayestestR: Describing effects and their uncertainty, existence and significance within the Bayesian framework. *Journal of Open Source Software*, 4(40), 1541.

Lüdecke, D., Waggoner, P., & **Makowski, D.** (2019). insight: A unified interface to access information from model objects in R. *Journal of Open Source Software*, 4(38), 1412.

**Makowski, D.** (2018). The psycho Package: An Efficient and Publishing-Oriented Workflow for Psychological Science. *Journal of Open Source Software*, 3(22), 470.

## MISCELLANEOUS

Salgues, S., Jacquot, A., **Makowski, D.**, Tahar, C., Baekeland, J., Arcangeli, M., ... & Sperduti, M. (2024). Self-reference and emotional reaction drive aesthetic judgment. *Scientific Reports*, 14(1), 19699.

Lee, H., Jacquot, A., **Makowski, D.**, Arcangeli, M., Dokic, J., Piolino, P., & Sperduti, M. (2024). The beauty and the self: A common mnemonic advantage between aesthetic judgment and self-reference. *Psychology of Consciousness: Theory, Research, and Practice*, 11(1), 71.

Rose, L., Kovarski, K., Caetta, F., **Makowski, D.**, & Chokron, S. (2024). Beyond empathy: Cognitive capabilities increase or curb altruism in middle childhood. *Journal of Experimental Child Psychology*, 239, 105810.

Lee, H., Jacquot, A., **Makowski, D.**, Arcangeli, M., Dokic, J., Piolino, P., & Sperduti, M. (2023). Beauty is in the eye of the beholder: Evidence from a common mnemonic advantage between aesthetics judgement and self-reference. *Psychology of Consciousness: Theory, Research, and Practice*.

Kovarski, K., Dos Reis, J., Chevais, C., Hamel, A., **Makowski, D.**, & Sperduti, M. (2022). Movie editing influences spectators' time perception. *Scientific Reports*, 12(1), 20084.

Blondé, P., Sperduti, M., **Makowski, D.**, & Piolino, P. (2022). Bored, distracted, and forgetful: The impact of mind wandering and boredom on memory encoding. *Quarterly Journal of Experimental Psychology*, 75(1), 53-69.

Blondé, P., **Makowski, D.**, Sperduti, M., & Piolino, P. (2020). In Medio Stat Virtus: intermediate levels of mind wandering improve episodic memory encoding in a virtual environment. *Psychological Research*, 85(4), 1613–1625.

Girardeau, J. C., Blondé, P., **Makowski, D.**, Abram, M., Piolino, P., & Sperduti, M. (2020). The impact of state and dispositional mindfulness on prospective memory: A virtual reality study. *Consciousness and Cognition*, 81, 102920.

**Makowski, D.**, Dutriaux, L. (2017). Neuropsychia.py: A Python Module for Creating Experiments, Tasks and Questionnaires, *Journal of Open Source Software*, 2(19), 259.

Sperduti, M., Armougum, A., **Makowski, D.**, & Piolino, P. (2017). Interaction between attentional systems and episodic memory encoding: the impact of conflict on binding of information, *Experimental Brain Research*, 235(12), 3553-3560.

Nicolas, S., & **Makowski, D.** (2017). Centenaire Ribot (I). La réception de l'oeuvre de Théodule Ribot chez l'éditeur Ladrance (1870-1873). *Bulletin de Psychologie*, 70(3), 163-178.

Sperduti, M., **Makowski, D.**, Blondé, P. & Piolino, P. (2017). Meditation and successful aging: can meditative practices counteract age-related cognitive decline?, *Gériatrie et Psychologie Neuropsychiatrie du Vieillissement*, 15(2), 205-13.

Nicolas, S., & **Makowski, D.** (2016). Can mental fatigue be measured by Weber's compass? Alfred Binet's answer on the value of aesthesiometry (tactile sensitivity) as an objective measure of mental fatigue. *European Yearbook of the History of Psychology*, 2, 11-46.

Sperduti, M., **Makowski, D.**, & Piolino, P. (2016). The protective role of long-term meditation on the decline of the executive component of attention in aging: a preliminary cross-sectional study. *Aging, Neuropsychology, and Cognition*, 23(6), 691-702.

## BOOK CHAPTERS

Mavros, P., Olszewska-Guizzo, A., & **Makowski, D.** (2023). Disentangling the Social from the Aesthetic: Neuropsychology for Urban Design. In *Future Cities—City Futures: Emerging Urban Perspectives*. TU Delft OPEN Publishing.

**Makowski, D.**, Chen, S. H. A., Larsen, R. R., Boyle, G. J., & Lilienfeld, S. O. (2023). Clinical Neuropsychology in the Era of Neuroimaging. In *The SAGE Handbook of Clinical Neuropsychology*. SAGE Publications.

## Communications

### GENERAL AUDIENCE / MEDIA COVERAGE

- Invited on the “Learning Bayesian Statistics” Podcast, [#55 Neuropsychology, Illusions & Bending Reality, with Dominique Makowski](#). 01 Feb 2022, [learnbayesstats.com](#)
- Speaker at the Pint of Science, [Back to the Matrix : pilule bleue ou rouge ?](#). 16 May 2018, Paris, France.
- Invited to participate in a Public Debate, [Art & science discussion on sensory illusions](#). 24 November 2017, Bordeaux, France.
- Published article in magazine, [Neuroanatomie de la réalité : quand le réel n'est plus](#). 2016, Les yeux brouillés, 1, 48-55.
- Featured on National TV, [The effect of violent images on the brain and body](#). 2015, Testé sous contrôle médical, France 4
- Research Featured in Online journal, ["Avengers, l'ère d'Ultron" en 3D : aussitôt vu, aussitôt oublié ?](#) 2015, [francetvinfo.fr](#)

## TALKS

**Co-organizer** (2021). *La recherche aux temps de la COVID, 1ère journée du COllaborative COgnitive Science*, 29 November, Online.

**Makowski, D.**, Sperduti, M., Nicolas, S. & Piolino, P. (2018). *Interindividual Determinants of Emotion Regulation through Fiction*. 2ème Congrès Francophone de TCC, 14-16 June, Geneva, Switzerland.

**Makowski, D.** (2018, *invited*). *How Reality can Modulate Memory and Emotions*. CRPCO's monthly seminar, 23 March, Amiens, France.

**Makowski, D.**, Sperduti, M., Nicolas, S. & Piolino, P. (2018). *Engagement in Fiction as an Altered State of Consciousness*. 6th Mind, Brain & Body Symposium, 15-16 March, Berlin, Germany.

**Makowski, D.**, Sperduti, M., Nicolas, S. & Piolino, P. (2017). *Vers la thérapie neurocognitive ? L'apport des neurosciences affectives dans la TCC*. 45ème congrès de l'AFTCC, 14-16 December, Paris, France.

Sperduti, M., **Makowski, D.** & Piolino, P. (2017). *The Role of Self-Relevance and Interindividual Variability in Executive Functions in Implicit Emotion Regulation*. International Society for the Study of Interindividual Differences (ISSID), 24-28 July, Warsaw, Poland.

**Makowski, D.**, Sperduti, M. & Piolino, P. (2017). *The Distinctive Effect of Emotion Regulation and Mindfulness on Attentional Capture*. 1ère Journée Scientifique des Jeunes Chercheurs du Centre de Recherches sur la Cognition et l'Apprentissage, 8 June, Poitiers, France.

**Makowski, D.**, Sperduti, M. & Piolino, P. (2016). *"Being there" and Remembering it: Presence enhances Encoding in Memory*. International Congress On Memory (ICOM), 17-22 July, Budapest, Hungary.

**Makowski, D.**, Sperduti, M. & Piolino, P. (2016). *The Sense of Reality as a feature of proto-Consciousness, its Alteration and Generation induced by Fictional Worlds*. Literary States of Consciousness, 2 June, Paris, France.

**Makowski, D.**, Sperduti, M. & Piolino, P. (2016). *Does Mindfulness ability differently affect Implicit and Explicit Emotion Regulation?* 2nd International Conference on Mindfulness (ICM), 11-15 May, Roma, Italy.

Sperduti, M., **Makowski, D.** & Piolino, P. (2016). *Does mindfulness enhance interoception? Dissociation between different interoceptive abilities*. 2nd International Conference on Mindfulness, 11-15 May, Roma, Italy.

**Makowski, D.**, Sperduti, M. & Piolino, P. (2015). *Bon et Mauvais Régulateurs Emotionnels: Un Rôle Spécifique de l'Inhibition ?* 56è Congrès National de la Société Française de Psychologie (SFP), 2-4 September, Strasbourg, France.

**Makowski, D.**, Sperduti, M., Pelletier, J. & Piolino, P. (2015). *Régulation émotionnelle et Self Control : De la recherche Fondamentale à l'Application Clinique*. 1er Congrès Francophone de TCC, 27-29 May, Lyon, France.

**Makowski, D.**, Sperduti, M., Arcangeli, M., Pelletier, J. & Piolino, P. (2014). *From Philosophy to the Rehabilitation of Psychiatric Patients: Fiction/Reality, Emotion et Cognitive Control*. Journée d'hiver de l'IUPDP, 19 December, Boulogne-Billancourt, France.

**Makowski, D.**, Sperduti, M. & Piolino, P. (2014). *L'émotion face à la fiction : l'étude de patients schizophrènes éclaire le paradoxe de la fiction*. 27 June, Fête de la Recherche, Boulogne-Billancourt, France.

**Makowski, D.**, & Rossi, S. (2013). [Le jugement esthétique chez l'enfant](#). Journées Neurosciences, Esthétique, et Complexité, 28 September, Paris, France.

## POSTERS

**Makowski, D.**, Lau, Z. J., Pham, T., Te, A. S., & Chen, S. A. (2022). *Fractal dimension of EEG activity is linked to distinct facets of resting-state cognition*. 28th Annual Meeting of the Organization for Human Brain Mapping (OHBM), 19-23 June, Glasgow, Scotland.

**Makowski, D.**, Lau, Z. J., Pham, T., Te, A. S., & Chen, S. A. (2022). *A Closer Look at Cardiac Contraction and the Effect of Cardiac Timing on Cognitive Control*. 28th Annual Meeting of the Organization for Human Brain Mapping (OHBM), 19-23 June, Glasgow, Scotland.

Lau, Z. J., Pham, T., Boyce, W. P., Chen, S. A., & **Makowski, D.** (2021). [A Parametric Framework to Generate Visual Illusions using Python](#). 43rd European Conference on Visual Perception, 22-27 Aug. Online.

**Makowski, D.**, Sperduti, M. & Piolino, P. (2016). *Régulation Emotionnelle, pleine-conscience et bien-être : Interactions et implication dans les troubles de l'humeur*. Journée d'hivers de la Société de Neuropsychologie de Langue Française, 5 December, Paris, France.

Blondé, P., Sperduti, M., **Makowski, D.** & Piolino, P. (2016). *Le rôle des réseaux attentionnels sur l'encodage en mémoire épisodique dans le cadre du vieillissement et de sa variabilité interindividuelle liée aux traits de pleine conscience*. Journée d'hivers de la Société de Neuropsychologie de Langue Française, 5 December, Paris, France.

**Makowski, D.**, Sperduti, M. & Piolino, P. (2016). *I know it's not real... what does it change?* nCPN day, 16 September, Paris, France.

**Makowski, D.**, Sperduti, M. & Piolino, P. (2015). *"J'avais l'impression d'y être" : Sentiment de présence et encodage en mémoire autobiographique*. Journée d'hiver de la Société de Neuropsychologie de Langue Française, 5 December, Paris, France.

Sperduti, M., **Makowski, D.** & Piolino, P. (2015). *Interaction entre systèmes attentionnels et encodage en mémoire épisodique*. Journée d'hivers de la Société de Neuropsychologie de Langue Française, 5 December, Paris, France.

**Makowski, D.**, Sperduti, M., Arcangeli, M., Pelletier, J. & Piolino, P. (2015). *I know it's not real... what does it change?* 12e colloque de la Société des Neurosciences, 19-22 May, Montpellier, France.

**Makowski, D.**, Sperduti, M., Arcangeli, M., Pelletier, J. & Piolino, P. (2014) *Emotion Regulation by fiction is related to cognitive inhibition*. Journée d'hiver de la Société de Neuropsychologie de Langue Française, 5 December, Paris, France.

Sperduti, M., **Makowski, D.**, Vialatte, F. & Piolino, P. (2014). *The decline of Autobiographical Memory in aging, inhibition and the cingulate cortex: an activation and resting state fMRI study*. Journées d'Etudes du Vieillissement, 15-16 September, Caen, France.

Sperduti, M., **Makowski, D.** & Piolino, P. (2014). *The protective role of meditation on the cognitive decline in aging: a cross-sectional study*. Journées d'Etudes du Vieillissement, 15-16 September, Caen, France.

**Makowski, D.**, Sperduti, M., Arcangeli, M., Pelletier, J. & Piolino, P. (2013). *QUID du paradoxe de l'émotion face à la fiction ? Nouvelles données physiologiques comparant la réponse émotionnelle à des scènes réelles ou fictionnelles*. Journées de l'IUPDP, 19 December, Boulogne-Billancourt, France.

## References

---

Do not hesitate to contact them of any inquiry.

- **Pr Annabel Chen** (Postdoc supervisor): [AnnabelChen@ntu.edu.sg](mailto:AnnabelChen@ntu.edu.sg)
- **Dr Marco Sperduti** (PhD mentor): [marco.sperduti@parisdescartes.fr](mailto:marco.sperduti@parisdescartes.fr)
- **Pr Pascale Piolino** (PhD cosupervisor): [pascale.piolino@parisdescartes.fr](mailto:pascale.piolino@parisdescartes.fr)
- **Pr Serge Nicolas** (PhD cosupervisor): [serge.nicolas@parisdescartes.fr](mailto:serge.nicolas@parisdescartes.fr)