



# Dominique Makowski

RESEARCH FELLOW

Nanyang Technological University, Singapore

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*Trained as neuropsychologist, I am currently a postdoc in Singapore researching aspects of reality bending (e.g., neuroscience of deception, perception of fake news, altered states of consciousness) and methodology (statistics and neurophysiology).*

## Current Position

### Presidential Postdoctoral Fellow

Singapore

CLINICAL BRAIN LAB, NANYANG TECHNOLOGICAL UNIVERSITY (NTU)

2020 - Present

- The [NTU Presidential Postdoc award](#) funded two years of postdoc for my project about the neurocognitive and affective processes underlying the beliefs in fake vs. real material (e.g., fake news, fiction, etc.).
- Reference: [Pr Annabel Chen](#)

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

### Master of Science (MSc) - 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 [Pr Sandrine Rossi](#)).

### Bachelor of Arts (BA) - Psychology

France

UNIVERSITÉ DE PARIS

2009 - 12

## Additional Training

### TEACHING

#### CITI Certification

Online

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

2019

#### Academic Teaching Certificate

France

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

2017

### CLINICAL

#### Certified Hypnotherapist

Singapore

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

2019

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

France

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

2016

#### First Aid Certificate

France

UNIVERSITÉ DE PARIS (16H - LEVEL 1)

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

## Skills

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### LANGUAGE

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

### NEUROIMAGING

### PROGRAMMING

Some of my main software include ...

### OPEN SCIENCE AND REPRODUCIBILITY

Involved in open-science.

Active in open-software communities to help users to answer technical and methodological questions.

## Research Track Record

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### GRANTS AND AWARDS

#### Singapore National Research Foundation's Intra-CREATE Grant (co-PI)

A NEUROSCIENTIFIC INVESTIGATION OF THE INTERACTION BETWEEN CROWDEDNESS AND ENVIRONMENT TYPOLOGY (NICE)

\$249,730

2021 - 22

#### NTU Presidential Postdoctoral Fellowship

'THAT'S FAKE NEWS': MODULATING THE NEUROCOGNITIVE PROCESSES UNDERLYING THE BELIEF IN DECEPTIVE INFORMATION

\$360,000

2020 - 22

#### Best Article Award (Psychonomic Society)

OBTAINED FOR [MAKOWSKI ET AL. \(2019\)](#)

\$1,000

2020

#### Commendation (Society for the Improvement of Psychological Science - SIPS)

OBTAINED FOR THE BAYESTEST R PACKAGE ([MAKOWSKI ET AL., 2019](#))

N/A

2020

## Ministerial PhD scholarship

THREE YEARS OF PhD FULLY FUNDED BY THE FRENCH MINISTRY OF RESEARCH

€80,000

2014 - 17

## EDITORIAL RESPONSIBILITIES

2020 - present  
Frontiers in Psychology: *Quantitative Psychology and Measurement*

Associate Editor

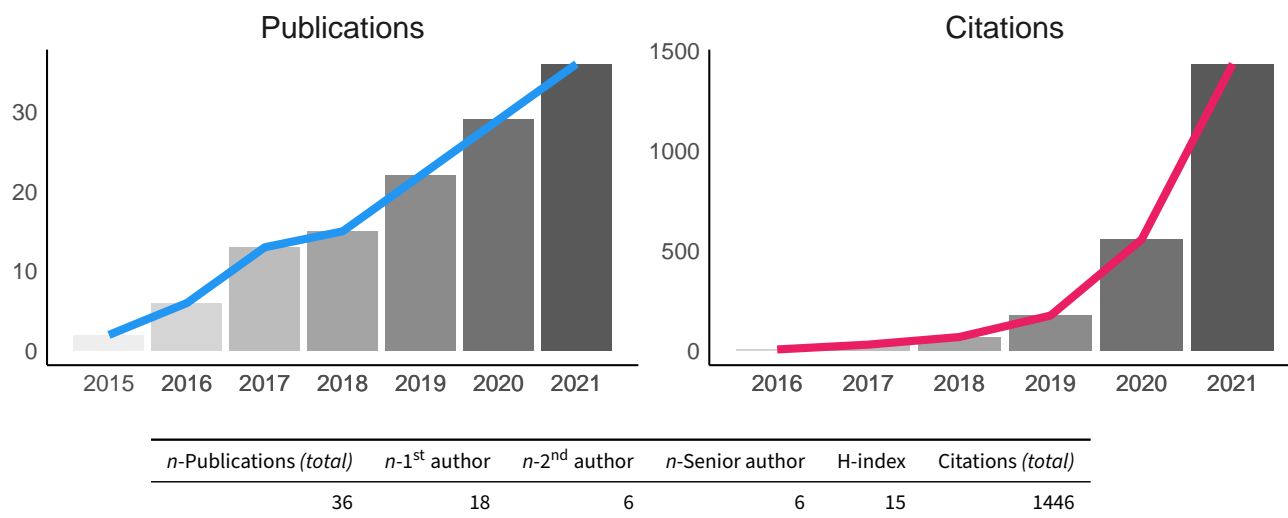
2018 - present  
Journal of Open Source Software

Regular Reviewer

2017 - present  
Biological Psychiatry, Personality and Individual Differences, Scientific Reports, Acta Psychologica, ...

Reviewer

## SCIENTIFIC IMPACT



## Teaching Record

### ACADEMIC

I have given academic lectures (total hours since 2014: **400**) on the following topics:

- **Neuropsychology** (192 hours; 2<sup>nd</sup> year, 3<sup>rd</sup> 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; 1<sup>st</sup> 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; 3<sup>rd</sup> year level):
  - Working memory
  - Mental imagery and categorisation
- **Other** (16 hours): Internet; Research Ethics; Digital Rights

### TECHNICAL

I have performed several technical trainings and courses on topics like:

- Statistics using R
- Experiment creation using Python
- How to acquire electrophysiological (EDA, ECG, EMG) signal using *BIOPAC* and *AcqKnowledge*®
- How to ask and handle sensitive personal information about patients or participants

## Experience

### RESEARCH

## Research Fellow

Singapore

CLINICAL BRAIN LAB, NANYANG TECHNOLOGICAL UNIVERSITY (NTU)

2019 - 2020

- 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](#)).

## 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.

## TEACHING

### Lecturer (Clinical Neuropsychology)

Paris, France

UNIVERSITÉ DE PARIS (UNDER PR ISABELLE JAMBAQUÉ)

2017 - 18

- Courses (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...).

### Teaching Assistant (Differential Cognitive Psychology)

Paris, France

UNIVERSITÉ DE PARIS (UNDER DR CHRISTOPHE MOUCHIROUD)

2015 - 17

- Courses (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.

### Teaching Assistant (Cognitive Psychology)

Versailles, France

UNIVERSITÉ DE PARIS

2014 - 16

- Courses: 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...).
- Supervisor: Pr Isabelle Jambaqué

## Publications

### REALITY MANIPULATION

## References

- **Prof. 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)
- **Prof. Pascale Piolino** (PhD cosupervisor): [pascale.piolino@parisdescartes.fr](mailto:pascale.piolino@parisdescartes.fr)
- **Prof. Serge Nicolas** (PhD cosupervisor): [serge.nicolas@parisdescartes.fr](mailto:serge.nicolas@parisdescartes.fr)