

# RESEARCH MASTER'S PROGRAM IN Cognitive science IN PARIS



## Cognitive science

- studies the major **mental functions** such as perception, action, memory, reasoning, and language
- describes their role in **complex behavior** such as problem solving, decision making, communication, and cooperation
- in **varied populations**: infants, adults of different cultures, neurological or psychiatric patients, and animals
- at different levels of **information processing**: formal, algorithmic, psychological, neural, genetic
- using tools from a **variety of disciplines**: experimental psychology, neurobiology, linguistics, mathematics, computer science, philosophy, social sciences

## The Cogmaster program

- is delivered jointly by **three prestigious universities** (EHESS, ENS, and University of Paris V), and is partner with 7 other universities in the Paris area
- **interdisciplinary**: it teaches how to integrate tools and concepts from several disciplines for a particular research objective
- **international**: bilingual courses (written work may be submitted in English), internationally known professors, partnerships with foreign universities
- **personalized**: course of study chosen from a total of 1100 hours, individual tutors and advisers, small classes
- **hands-on**: workshops, research experience in one of 40 laboratories or research groups in Paris or abroad.

### Application procedure: written application and interviews

(may be done by telephone)  
(may be in English)

- Bachelor's degree required (equivalent of 3-year European diploma) in neuroscience, biology, psychology, computer science, mathematics, physics, philosophy, linguistics, or social sciences.

## First year (M1)

→ Core concepts, methodological and theoretical workshops

→ Reinforcement of the major discipline

Philosophy and Social Science  
Mathematics and Modeling  
Cognitive Psychology  
Neuroscience  
Linguistics

→ Introduction to other disciplines

Understand the concepts, methods, and central problems in the cognitive science and master the fundamental literature in this field

→ Research project

- Mandatory long internships for majors Psychology and Neuroscience
- Optional short internships for other majors

## Second year (M2)

→ Core concepts, methodological and theoretical workshops

→ Interdisciplinary courses

Personalized program

Social Cognition

Perception and Action

Language and Communication

Development, Genetics and Plasticity

Executive Functions, Reasoning and Consciousness

→ Research project (long internship during the 2<sup>nd</sup> semester)

- Carried out in one of the research groups affiliated with the program, in France or abroad.
- Independent empirical or theoretical project, potentially publishable as an original academic article.
- Written thesis and oral defense (may be in English).

### Application procedure: written application and interviews

+ choice of laboratory and submission of research project

- M1 Equivalence; interdisciplinary background recommended
- Double major, medical school, engineering school, etc.

## Pedagogical council

Daniel **Andler** (Paris IV, ENS)  
Anne-Catherine **Bachoud-Levi** (Inserm)  
Alain **Berthoz** (Coll. de France)  
Denis **Bonnay** (ENS)  
Sacha **Bourgeois-Gironde** (ENS-Lyon)  
Roberto **Casati** (CNRS)  
Patrick **Cavanagh** (Paris V, Harvard)  
Rava **Da Silveira** (ENS, Harvard)

Jérôme **Dokic** (EHESS)  
Jacques **Droulez** (CNRS)  
Jacques **Dubucs** (CNRS)  
Jacqueline **Fagard** (CNRS)  
Yves **Frégnac** (CNRS)  
Andrei **Gorea** (Paris V)  
Dominique **Hasboun** (Paris VI)  
Michel **Imbert** (EHESS)  
Pierre **Jacob** (CNRS)

Etienne **Koechlin** (CNRS)  
Sid **Kouider** (CNRS)  
Jean **Lorenceau** (CNRS)  
Christian **Lorenzi** (Paris V)  
Christian **Machens** (ENS)  
Pascal **Mamassian** (Paris V)  
Philippe **Mongin** (HEC)  
Jean-Pierre **Nadal** (CNRS)  
Léa **Nash** (CNRS, Paris VIII)  
Thierry **Nazzi** (CNRS)

Kevin **O'Regan** (CNRS)  
Guy **Orban** (KUL)  
Christophe **Pallier** (CNRS)  
Sharon **Peperkamp** (Paris VIII)  
Jean **Petitot** (EHESS, Polytechnique)  
Jean-Baptiste **Poline** (Inserm)  
Daniel **Pressnitzer** (CNRS)  
Joëlle **Proust** (CNRS)  
Franck **Ramus** (CNRS)

François **Récanati** (EHESS)  
Jean-Michel **Roy** (ENS-Lyon)  
Jérôme **Sackur** (ENS)  
Juan **Seguí** (Paris V)  
Dan **Sperber** (CNRS)  
Dominique **Sportiche** (ENS, UCLA)  
Catherine **Tallon-Baudry** (CNRS)  
Mark **Wexler** (CNRS)

Program director: Emmanuel **Dupoux** (EHESS)