### PhD Course: BRAIN, MIND AND COMPUTER SCIENCE
in agreement with Fondazione Bruno Kessler

#### Curricula
- NEUROSCIENCE, TECHNOLOGY, AND SOCIETY
- COMPUTER SCIENCE FOR SOCIETAL CHALLENGES AND INNOVATION

#### Department
PSICOLOGIA GENERALE - DPG

#### Duration
3 years

#### Number of positions

<table>
<thead>
<tr>
<th>Scholarships funded by the University</th>
<th>n. 6</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 scholarship funded by Fondazione Bruno Kessler - FBK - <strong>Topic:</strong> Gamification in the design of the user engagement with digital therapeutics for mental well-being <em>(curriculum: NEUROSCIENCE, TECHNOLOGY, AND SOCIETY)</em>;</td>
<td></td>
</tr>
<tr>
<td>1 scholarship funded by Fondazione Bruno Kessler - FBK - <strong>Topic:</strong> Human-centered design of AI-powered digital interventions for the prevention and management of chronic diseases <em>(curriculum: NEUROSCIENCE, TECHNOLOGY, AND SOCIETY)</em>;</td>
<td></td>
</tr>
<tr>
<td>1 scholarship funded by Fondazione Bruno Kessler - FBK - <strong>Topic:</strong> Neuro-Symbolic architecture for complex task resolution <em>(curriculum: COMPUTER SCIENCE FOR SOCIETAL CHALLENGES AND INNOVATION)</em>;</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Scholarships funded by the partner Institution</th>
<th>n. 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 scholarship funded by Comune di Padova con il contributo del Centro Interdipartimentale di Ricerca &quot;Human Inspired Technologies Research Center - HIT&quot; - <strong>Topic:</strong> Artificial Intelligence for Smart Cities <em>(curriculum: COMPUTER SCIENCE FOR SOCIETAL CHALLENGES AND INNOVATION)</em>;</td>
<td></td>
</tr>
<tr>
<td>1 scholarship funded by Dipartimento di Matematica &quot;Tullio Levi-Civita&quot; - DM su fondi dell'Unione Europea - NextGenerationEU e del programma STARS@UNIPD 2023, progetto &quot;PatchThemAll - Virtualization-Based Approach for Distributing Android Security Patches on Any Custom Android OS&quot; - <strong>Topic:</strong> Software Security Patches: from Standard Automated Program Repair Approaches to Large Language Models Applications <em>(curriculum: COMPUTER SCIENCE FOR SOCIETAL CHALLENGES AND INNOVATION)</em>;</td>
<td></td>
</tr>
<tr>
<td>1 scholarship funded by Dipartimento di Scienze Biomediche - DSB su fondi HORIZON-INFRA2023-DEV-01 ELIXIR-STEERS; 101131096 - <strong>Topic:</strong> Expanding the DOME recommendations for machine learning in the life sciences <em>(curriculum: COMPUTER SCIENCE FOR SOCIETAL CHALLENGES AND INNOVATION)</em>;</td>
<td></td>
</tr>
<tr>
<td>1 scholarship funded by Dipartimento di Scienze Biomediche - DSB su fondi HORIZON-</td>
<td></td>
</tr>
</tbody>
</table>
### Scholarships on PNRR funds

| Scholarships on PNRR funds | n. 1 |

1 scholarship funded by Dipartimento di Ingegneria Civile, Edile e Ambientale – ICEA su fondi PNRR; progetto: Sustainable Mobility Center (Centro Nazionale per la Mobilità Sostenibile – CNMS) CN4-Spoke 8 – CUP: C93C22002750006 - **Topic**: IT solutions for Sustainable Mobility (**curriculum**: COMPUTER SCIENCE FOR SOCIETAL CHALLENGES AND INNOVATION);

### Selection criteria

**PRESELECTION ON THE BASIS OF EVALUATION OF QUALIFICATIONS AND ORAL EXAMINATION**

### Oral examination via remote interview:

Applicants who have requested it in the application form will take the oral exam via remote interview using the ZOOM videoconference tool.

### Evaluation criteria

- **Qualifications**: points max 60
- **Oral examination**: points max 40

### Documents to be submitted

- **Thesis**: Points: max 10
  - Applicants waiting to be awarded the entrance qualification: those waiting to be awarded the entrance qualification by 30th September 2024 will submit a summary of the master thesis (max. 4 pages) signed by the applicant and the thesis supervisor.

- **Curriculum**: Points: max 10
  - Please, follow a chronological order within each section of your curriculum, starting from the most recent item (for instance, when describing your education, start with the most recent degree you have obtained). Also clearly include in an easily recognizable position in the document the boldfaced score obtained at graduation or, if have not yet graduated, the average exams' score.

- **Scientific publications**: Points: max 10
  - All publications you mention in the application and CV need to be cited consistently with the same style (e.g. APA, Chicago, etc). Do not mention presentations at conferences that are not included in full in the conference proceedings.
### Preselection: First meeting of the Evaluating Commission

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>31 MAY 2024</td>
<td>10:00</td>
</tr>
</tbody>
</table>

### Publication of the results of the evaluation of the preselection

- **Website**: [http://hit.psy.unipd.it/BMCS/admission](http://hit.psy.unipd.it/BMCS/admission)
- **In order to be admitted to the examination, the candidate must get a score of at least 7/10 in the preselection.**

### Publication of the timetable of remote interviews and instructions on how to use the ZOOM video conferencing

- **By 03 JUNE 2024** the commission will publish on the course website [http://hit.psy.unipd.it/BMCS/admission](http://hit.psy.unipd.it/BMCS/admission) the timetable of the remote interviews and the instructions on how to use the ZOOM video conferencing for those applicants who have chosen in the application form to take the oral examination via remote interview and who have passed the preselection on the basis of the qualifications with a pass-mark of at least 7/10.

### Oral examination

- **Date**: 05 JUNE 2024 10:00 - Human Inspired Technology Research Centre, via Luzzatti 4, Padova

### Language/s

- **Foreign language/s assessment at the oral examination**: At the oral examination the commission will assess the knowledge of the following language/s: English
- **Admission exam**: The admission exam will be taken in: English

### Examination topics

- Depending on the background of the applicant, the oral examination will focus on:
  - computer science - psychology and neuroscience - human-computer interaction
  - e-health and cybertherapy - Internet of Things - machine learning - big data and security
- The applicant might also be asked about their prospective doctoral project.

### PhD Course Website:

- [http://hit.psy.unipd.it/BMCS](http://hit.psy.unipd.it/BMCS)

### Further information

- **Department**: PSICOLOGIA GENERALE - DPG
- **Address**: Via Venezia - N. 8, 35131 Padova (PD)
- **Contact person**: Romagnolo Carla
- **Telephone**: 049 8276375  
  **e-mail**: phd.bmcs@unipd.it

### How to apply

- The application must be submitted only via the online procedure available at: [https://pica.cineca.it/unipd/dottorati40](https://pica.cineca.it/unipd/dottorati40)
- The documents must be attached in pdf format.
- The application and the attached documents are submitted automatically by closing the online procedure. So no hard copy of the application and of the documents must be sent to the office.

### Deadlines

- **Publication of the ranking lists and enrollment from 2 JUly 2024**
- **Beginning of PhD courses 1 November 2024**