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

<table>
<thead>
<tr>
<th>Curricula</th>
<th>NEUROSCIENCE, TECHNOLOGY, AND SOCIETY</th>
<th>COMPUTER SCIENCE FOR SOCIETAL CHALLENGES AND INNOVATION</th>
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</thead>
<tbody>
<tr>
<td>Department</td>
<td>PSICOLOGIA GENERALE - DPG</td>
<td></td>
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<tr>
<td>Duration</td>
<td>3 years</td>
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</table>

| Scholarships funded by the University | n. 4   | Funding Departments:  
|                                       |        | PSICOLOGIA GENERALE – DPG  
|                                       |        | Psicologia dello Sviluppo e della Socializzazione - DPSS  
|                                       |        | Matematica "Tullio Levi-Civita" - DM |

| Scholarships funded by institution arrangement | n. 1   | 1 scholarship funded by Fondazione Bruno Kessler - **Topic:** Extracting information from clinical documents in a multilingual perspective (**curriculum:** COMPUTER SCIENCE FOR SOCIETAL CHALLENGES AND INNOVATION);  
|                                                |        | 1 scholarship funded by Fondazione Bruno Kessler - **Topic:** Virtual coaching interventions for patient care and well-being in oncology (**curriculum:** NEUROSCIENCE, TECHNOLOGY, AND SOCIETY); |

| Scholarships funded by external public or private bodies/Departments | n. 2   | 1 scholarship funded by Aptuit (Verona) S.r.l. - An Evotec company - **Topic:** Development and application of innovative machine learning/artificial intelligence approaches for the prediction of chemical reactions (**curriculum:** COMPUTER SCIENCE FOR SOCIETAL CHALLENGES AND INNOVATION);  
|                                                                     |        | 1 scholarship funded by Innova S.p.A. - **Topic:** Analysis of vulnerabilities for inferring data related to a vehicle, assuming physical access to interfaces such as OBD for CAN-bus (**curriculum:** COMPUTER SCIENCE FOR SOCIETAL CHALLENGES AND INNOVATION); |
|                                                                     |        | 1 scholarship funded by Smart PhD - Fondazione Cassa di Risparmio di Padova e Rovigo, Intesa Sanpaolo S.p.A., UniSMART - **Topic:** Toward Automotive Cybersecurity, compliance with ISO 21434 standard and UNECE R155/R156 regulations (**curriculum:** COMPUTER SCIENCE FOR SOCIETAL CHALLENGES AND INNOVATION);  
|                                                                     |        | 1 scholarship funded by Smart PhD - Fondazione Cassa di Risparmio di Padova e Rovigo, Intesa Sanpaolo S.p.A., UniSMART - **Topic:** Vision and AI for garden care (**curriculum:** COMPUTER SCIENCE FOR SOCIETAL CHALLENGES AND INNOVATION);  
<p>|                                                                     |        | 1 scholarship funded by Symrise S.r.l. - <strong>Topic:</strong> Development of a sebaceous gland organoid as a study model |</p>
<table>
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<tr>
<th><strong>Documents to be submitted</strong></th>
<th><strong>Evaluation criteria</strong></th>
<th><strong>Selection criteria</strong></th>
</tr>
</thead>
</table>
| Thesis: Points: max 10      | Qualifications: points max 60  
Oral examination: points max 40 | PRESELECTION ON THE BASIS OF EVALUATION OF QUALIFICATIONS AND ORAL EXAMINATION |
| Curriculum: Points: max 10 |                        | 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. |
| Scientific publications: Points: max 10 |                        |                        |
| Other documents: Points: max 30 |                        |                        |

Applicants waiting to be awarded the entrance qualification: those waiting to be awarded the entrance qualification by 30th September 2022 will submit a summary of the master thesis project (max. 4 pages) signed by the applicant and the supervisor.

Please choose one style to report the publications you authored (e.g. APA, Chicago, ...) and stick to it consistently. Do not mention presentations at conferences that are not included in full in the conference proceedings.

Research project (maximum 2000 words + references) prepared according to the guidelines published on this page http://hit.psy.unipd.it/BMCS/admission. Reference letters (maximum 2). Attestation/certification of level of English language proficiency released by any authorized agency.

<table>
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<tr>
<th><strong>Preselection: First meeting of the Evaluating Commission</strong></th>
<th><strong>Preselection</strong></th>
</tr>
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<tbody>
<tr>
<td>06 JUNE 2022 09:00</td>
<td>06 JUNE 2022 09:00</td>
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</table>

Within 07 JUNE 2022 the evaluating Commission will publish the results of the evaluation of the qualifications in the following website: 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.

By 07 JUNE 2022 the commission will publish on the course website 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**

09 JUNE 2022 09:00 - 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 his/her prospective doctoral project.

### Didactic program

The doctoral program has its teaching offer, including seven mandatory courses with a final examination. All courses are in English and facilitate an interdisciplinary path between psychology, cognitive neuroscience and computer science, consistently with the educational goals of the program. The students attend at least 150 hrs of classes ([http://hit.psy.unipd.it/BMCS/teaching-offer](http://hit.psy.unipd.it/BMCS/teaching-offer)).

### PhD Course Website:

http://hit.psy.unipd.it/BMCS

### Further information

**Department:** PSICOLOGIA GENERALE - DPG

**Address:** Via Venezia - N. 8, 35131 Padova (PD)

**Contact person:** Mezzetti Giovanna

**telephone:** 049/8276593  
**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/dottorati38](https://pica.cineca.it/unipd/dottorati38)

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 **1 July 2022**

Beginning of PhD courses **1 October 2022**