



UNIVERSITÀ  
DEGLI STUDI DI TRIESTE

Area dei Servizi Istituzionali  
Settore Servizi agli studenti e alla didattica  
Ufficio Dottorati di ricerca

ATTACHMENT 8

LAST REVISED 21/05/2020

**PhD IN  
NEURAL AND COGNITIVE SCIENCES  
OVERVIEW**

<b>IN BRIEF</b>	
<b>Lines of research</b>	1 Neurobiology, neurogenesis, and cellular neurophysiology 2 Clinical neurosciences 3 Neuroengineering 4 Perception, action and attention 5 Memory, language, and executive control 6 Thinking, judgment and decision making 7 Comparative psychology 8 Cognitive neuroscience 9 Typical and atypical development 10 Personality and social psychology 11 Sport psychology
<b>Administrative location</b>	University of Trieste
<b>Organizing Department</b>	Department of Life Sciences
<b>Duration</b>	3 years
<b>Attendance abroad that entitles to a scholarship increase - min. max. of months for each PhD student (over 3 years)</b>	2 - 18
<b>Official language</b>	Italian
<b>Language (alternative to Italian) partially used in PhD activities</b>	Some of the seminars proposed by invited speakers will be in English. Monthly-based journal club meetings will consist of a presentation from the doctoral candidate and a discussion with colleagues and the school members in English. The doctoral candidate will present his/her annual report of the activities in English to an external examiner.
<b>Subject Areas (in alphabetical code order)</b>	05 BIOLOGY 06 MEDICINE 09 INDUSTRIAL AND INFORMATION ENGINEERING 11b PSYCHOLOGY
<b>Macro Research Fields (in alphabetical code order)</b>	05/D PHYSIOLOGY 05/E EXPERIMENTAL AND CLINICAL BIOCHEMISTRY AND MOLECULAR BIOLOGY 06/D MEDICAL SPECIALITIES 09/G SYSTEMS ENGINEERING AND BIOENGINEERING 11/E PSYCHOLOGY
<b>Scientific Disciplinary Sectors (in alphabetical code order)</b>	BIO/09 PHYSIOLOGY BIO/10 BIOCHEMISTRY

	ING-INF/06	ELECTRONIC AND INFORMATICS BIOENGINEERING
	M-PSI/01	GENERAL PSYCHOLOGY
	M-PSI/02	PSYCHOBIOLOGY AND PHYSIOLOGICAL PSYCHOLOGY
	M-PSI/04	DEVELOPMENTAL AND EDUCATIONAL PSYCHOLOGY
	M-PSI/05	SOCIAL PSYCHOLOGY
	M-PSI/08	CLINICAL PSYCHOLOGY
	MED/26	NEUROLOGY
<b>Domain European Research Council</b>	SH	SOCIAL SCIENCES AND HUMANITIES
	LS	LIFE SCIENCES
	PE	PHYSICAL SCIENCES AND ENGINEERING
<b>ERC Panels</b>	SH4	THE HUMAN MIND AND ITS COMPLEXITY: COGNITION, PSYCHOLOGY, LINGUISTICS, PHILOSOPHY AND EDUCATION
	LS5	NEUROSCIENCES AND NEURAL DISORDERS: NEUROBIOLOGY, NEUROANATOMY, NEUROPHYSIOLOGY, NEUROCHEMISTRY, NEUROPHARMACOLOGY, NEUROIMAGING, SYSTEMS NEUROSCIENCE, NEUROLOGICAL DISORDERS, PSYCHIATRY
	PE7	SYSTEMS AND COMMUNICATION ENGINEERING: ELECTRONIC, COMMUNICATION, OPTICAL AND SYSTEMS ENGINEERING
	LS2	GENETICS, GENOMICS, BIOINFORMATICS AND SYSTEMS BIOLOGY: GENETICS, POPULATION GENETICS, MOLECULAR GENETICS, GENOMICS, TRANSCRIPTOMICS, PROTEOMICS, METABOLOMICS, BIOINFORMATICS, COMPUTATIONAL BIOLOGY, BIOSTATISTICS, BIOLOGICAL MODELLING AND SIMULATION, SYSTEMS BIOLOGY, GENETIC EPIDEMIOLOGY

<b>WHO'S WHO</b>	
<b>Chair</b>	Prof. Tiziano Agostini - Department of Life Sciences – University of Trieste - tel. +39 040.9828875; email <a href="mailto:agostini@units.it">agostini@units.it</a>
<b>Vice</b>	Prof. Carlo Fantoni - Department of Life Sciences – University of Trieste - tel. +39 040.5588871; email <a href="mailto:cfantoni@units.it">cfantoni@units.it</a> <b>from 01.11.2020:</b> Prof. Cinzia Chiandetti - Department of Life Sciences – University of Trieste - phone +39 040.5588677; email <a href="mailto:cchiandetti@units.it">cchiandetti@units.it</a>
<b>PhD Academic Board</b>	<a href="#">List of members</a>
<b>Web site</b>	<a href="https://www.biologia.units.it/corsi/9/dottorato-in-neuroscienze-e-scienze-cognitive">https://www.biologia.units.it/corsi/9/dottorato-in-neuroscienze-e-scienze-cognitive</a>
<b>Email</b>	<a href="mailto:ncs.program@units.it">ncs.program@units.it</a>
<b>Course description and objectives</b>	<p>The Ph.D. program in Neural and Cognitive Sciences (NCS) provides advanced research training focused on the interdisciplinary study of the central and peripheral nervous systems, the mind/brain system, cognition, and on applications in clinical, social, ergonomic, and sport contexts.</p> <p>The students will develop competencies in: cellular neurophysiology; neurogenesis; neuropsychology and clinical psychology; neuroengineering; psycholinguistics; perception, action and attention; memory and executive control; thinking, judgment, and decision making; sport psychology; typical and atypical development; personality; social psychology; community psychology; comparative psychology. At the end of the course, the students will be able to formulate an independent project; to coordinate data collection integrating methods of biological and psychological sciences; to evaluate results; to propose technological innovations for clinical and rehabilitation purposes; to operate in multidisciplinary teams in public and private institutions.</p> <p>Taking into account students' CV, the PhD board defines individual programs, including a component focused on interdisciplinary knowledge and a component on specific advanced research abilities. Formal learning opportunities will include: lectures; journal club; seminars; scientific reporting; stages in foreign institutions;</p>

	participations in national and international meetings; summer schools for young researchers.
<b>Job placement opportunities</b>	<p>PhDs in NCS will be able to conduct:</p> <ul style="list-style-type: none"> <li>- qualified jobs that require specific and high-level knowledge in neurobiology, neuroengineering, psychology, and related disciplines, to be employed in public and private research centres and institutes, industries and clinics;</li> <li>- qualified jobs concerning the development of technology and experimental methodologies relevant for neural and cognitive sciences, with applications to basic, pharmacological, and clinical research, to cognitive ergonomics, to the improvement of sport performance, to rehabilitation;</li> <li>- qualified jobs concerning the promotion of the public understanding of neural and cognitive sciences and the communication of their theoretical and experimental achievements, as well as of the relevance of their applications.</li> </ul>
<b>Main cooperating international Universities and Research Institutions</b>	<ol style="list-style-type: none"> <li>1 CRICM - CNRS UMR 7225 - Inserm UMR_S 975 - Université Pierre et Marie Curie, Parigi (France), Team Cognition, Neuroimaging and Brain Diseases, prof. Gianfranco Dalla Barba (TP a UniTs), France</li> <li>2 School of Psychology, Bangor University - Adeilad Brigantia, Penrallt Road, Gwynedd LL57 2AS, United Kingdom</li> <li>3 Queen Mary University of London, United Kingdom</li> <li>4 German Sport University Cologne, Institute of Psychology, Germany</li> <li>5 De Montfort University, United Kingdom</li> </ol>