Tommaso Ghilardi, Ph.D.

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Work Experience



Teaching

- 2021 2022 Thesis supervision. Supervision of 3 master students in the preparation of their thesis.
- 2020 2021Teacher assistant "Brain & Cognition 1". The goal of this course was to provide insight into
the way these behaviours and cognitive processes can be explained from the workings of the
brain. As an assistant teacher, I weekly supervised groups of students guiding them through the
work-group material and administering tests.



Assistant for the EEG hands-on session of the "Developmental Cognitive Neuroscience" course. I assisted during the EEG hands-on session of the Developmental Cognitive Neuroscience course led by Sabine Hunnius. The goal of the class was to provide a hands-on introduction to EEG analysis of adult and infant EEG signals.

- 2017 Lesson organizer of "Developmental Clinical Neuroscience". I participated in the organization of the course material under the supervision of Professor Gianluca Esposito. The goal of the class was to provide an introduction to Social and Affective Neuroscience and increase students' multidisciplinary knowledge of physiological mechanisms underlying social interaction.
- 2016 Lesson organizer of "Social and Affective Neuroscience (SAN)". I participated in the organization of the course material under the supervision of Professor Gianluca Esposito. The goal of the class was to: provide an introduction to Social and Affective Neuroscience, increase students' multidisciplinary knowledge of physiological mechanisms underlying social interaction and improve students' skills regarding human physiology research. Lecture given: "Processing Infant Direct Speech"

Outreach

Skills

2021	University promotional video. Participation to the video series <i>"Donders Labs"</i> to talk about the Baby and Child Research Center (Video).	
	Scientific podcast. Participation in the podcast Scientificast talking about my research and more in general about infants' action prediction abilities (Episode).	
2018 - 2021	Divulgative blog. Contribution to the MOTION European project (MSCA) blog.	

Languages	Italian native speaker. Strong r lish (C1 Advanced user certified speaking competencies for Dutc	eading, writing and speakin by Cambridge English) and l h.	ng competencies for Eng- basic reading, writing and
Research techniques	EEG, fNIRS, Eye-tracking, ECG, EMG, EDA, Behavioural		
Coding	Python R	Matlab	
Experiment design	Psychopy Presentation	Pavlovia	
Media Softwares Misc.	Photoshop, Premiere Pro, Illustr GitHub, Academic Research, Te	ator. eaching, Training, ETFX type	esetting.

Education

2016 - 2018	M.Sc. Pychology-Neuroscience, Trento University, Italy	
	First Class Honours. Thesis title: Ethnicity and gender modulate the recognition of emotional	
	facial expressions.	
2013 – 2016	B.Sc. Sciences and techniques of cognitive psychology, Trento University, Italy.	

Awards

2022	Internationalization travel grant. Radboud internationalization grant.
2019	Travel award. Sackler Colloquium "The Brain Produces Mind by Modelling".
2018	Merit Award. 2017 edition Trento University.

Talks & Posters

2022	Poster : Predicting the value of information: an infant study. The International Congress of Infant Studies (ICIS) \Lancaster Conference on Infant & Early Child Development (LCICD)
	Poster : Statistics in motion: Does the infant motor system predict actions based on their transitional probability?. The International Congress of Infant Studies (ICIS)
	Talk : Statistics in motion: predicting actions based on their transitional probability. Conference on Interdisciplinary Advances in Statistical Learning (StatLearnBCBL)
2020	Poster : Building action expectations in infants: An fNIRS study. Budapest CEU Conference on Cog- nitive Development(BCCCD).
2018	Poster : The influence of ethnicity in the recognition ability of emotional faces and voices, Cognitive Science Arena (CSA).

2017 **Poster**: Genetic factors and adults' expectations towards relationships interact in affecting physiological responses to social distress, Workshop on Cognition Evolution (CogEvo)

Research

Journal Articles

- **Ghilardi**, **T.**, Meyer, M. & Hunnius, S. (2023). Predictive motor activation: Modulated by expectancy or predictability? *Cognition*, *231*, 105324.
- Bonassi, A., **Ghilardi**, T., Gabrieli, G., Truzzi, A., Borelli, J. L., Lepri, B., Shinohara, K., Esposito, G. Et al. (2021). The recognition of cross-cultural emotional faces is affected by intensity and ethnicity in a japanese sample. *Behavioral Sciences*, 11(5), 59.
- Bonassi, A., **Ghilardi**, T., Truzzi, A., Cataldo, I., Azhari, A., Setoh, P., Shinohara, K. & Esposito, G. (2017). Dataset on genetic and physiological adults□ responses to social distress. *Data in brief*, *13*, 742–748.

Inproceedings

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- Poli, F., **Ghilardi**, T., Mars, R. B., Hinne, M. & Hunnius, S. (2021). 8-month-old infants meta-learn from sparse evidence, PsyArXiv. https://doi.org/10.31234/osf.io/dc9s6
- Ghilardi, T. (2021). Statistics in motion: Does the infant motor system predict actions based on their transitional probability?, Open Science Framework, RegisteredReport.