

CLAUDIO GENTILI, MD, PhD.

BIO-Sketch

1. PERSONAL INFORMATION

Last name, name: Gentili Claudio

Date and place of Birth: 29/12/1977 – Viareggio, Italy

Nationality: Italian

Work address: Department of General Psychology, University of Padua, Via Venezia 8, Padua, Italy

Presently held academic positions: Associate professor;

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Researchgate: https://www.researchgate.net/profile/Claudio_Gentili2

ORCID: <http://orcid.org/0000-0002-2579-8755>

2. DOMAINS OF SCIENTIFIC INTEREST

- Clinical Psychophysiology of mood and anxiety disorders
- Neurobiology of face perception in mood and anxiety disorders
- Psychophysiological remote-monitoring of mood disorders
- fMRI resting state correlates of psychological and personality traits
- Meta-analysis of fMRI data

3. PROFESSIONAL EXPERIENCE (teaching and research)

- September 2015** Associate Professor in Clinical Psychology, University of Padua
- December 2012** Board Certified Psychotherapist, Italy
- November 2010** Assistant Professor in Clinical Psychology, University of Pisa
- December 2006:** Assistant Professor in Clinical Psychology (tenure track), University of Pisa

4. EDUCATION

- March 2009** Master Degree in Psychology, University of Pavia
- July 2006:** Ph.D. in Neuroscience
- January 2004:** *Visiting fellow* at the Department of Psychology, University of Princeton (tutor Dr. James V. Haxby)
- July 2003:** Board certified Physician, Italy
- September 2002:** MD Degree (summa con lode) at the University of Pisa

5. OTHER COMPETENCES

Skill in software for stimulus presentation for fMRI experiment (Psycho.Py, Presentation)

- Good knowledge of software for statistical analysis (SPSS-PASW)
- Advanced knowledge of fMRI data analysis (AFNI, FSL)

6. LANGUAGES

Italian: Native Speaker

English: High proficiency (speaking, reading and comprehension, writing)

7. POSITIONS IN PROFESSIONAL ORGANIZATIONS

Member in :

- Italian Board of Physicians
- Italian Board of Psychotherapists
- Organization of Human Brain Mapping
- Society for Neuroscience
- Italian Association of Psychology, Clinical Division (AIP)
- Albert Ellis Institute, New York
- Platform for Advanced Imaging – MRI/EEG – in Clinical Cognitive Sciences Department of Clinical Psychology and Psychotherapy University Babes Bolyai di Cluj-Napoca, Romania

8. RESEARCH GRANTS

2016-to date European project NEVERMIND (Horizon 2020) - coordinated by the University of Pisa. The project aims to make use of a wearable device (a t-shirt) to monitor ECG in patients with somatic disorders. Through the analysis of the ECG the projects aims to remotely detect the onset of secondary depression or of other significant psychological changes.

2010-2013 Clinical Coordinator for University of Pisa partner: European project PSYCHE (FP7 IST program, financed by the European Commission). The project aimed to develop and employ a wearable device (a t-shirt) to monitor ECG in patients with Bipolar Disorders Through the analysis of the ECG we were able to detect changes of mood states and to provide automatic mood status labels which was highly consistent with clinical

diagnosis.

2003-to date Member of research team of several research project granted by the Italian Minister of Education and by several private Italian Institutions

9. EDITORIAL ACTIVITY

- Editorial Board of Journal of Evidence-Based Psychotherapies

10. INTERNATIONAL COLLABORATIONS

2014-to-date Institute of Medical Psychology and Systems Neuroscience – Münster University (Germany). - Prof. Thomas Straube

2009-to-date Department of Clinical Psychology and Psychotherapy, Babes Bolyai University, Cluj-Napoca, Romania.

2006-2009 University of Dartmouth – New Hampshire, USA. - Prof. James V. Haxby

2003-2006 University of Princeton - New Jersey, USA. Prof. James V. Haxby

11. PUBLICATIONS

Papers in peer-review journals

1. Cristea IA, Gentili C, Pietrini P, Cuijpers P. Is investigator background related to outcome in head to head trials of psychotherapy and pharmacotherapy for adult depression? A systematic review and meta-analysis. PLoS One. 2017 Feb 3;12(2):e0171654. doi: 10.1371/journal.pone.0171654. PubMed PMID: 28158281; PubMed Central PMCID: PMC5291442
2. Gentili C, Valenza G, Nardelli M, Lanatà A, Bertschy G, Weiner L, Mauri M, Scilingo EP, Pietrini P. Longitudinal monitoring of heartbeat dynamics predicts mood changes in bipolar patients: A pilot study. J Affect Disord. 2017 Feb;209:30-38. doi: 10.1016/j.jad.2016.11.008. PubMed PMID: 27870943.
3. Cristea IA, Gentili C, Pietrini P, Cuijpers P. Sponsorship bias in the comparative efficacy of psychotherapy and pharmacotherapy for adult depression: meta-analysis. Br J Psychiatry. 2017 Jan;210(1):16-23. doi: 10.1192/bjp.bp.115.179275. Review. PubMed PMID: 27810891.
4. Cuijpers P, Cristea IA, Weitz E, Gentili C, Berking M. The effects of cognitive and behavioural therapies for anxiety disorders on depression: a meta-analysis. Psychol Med. 2016 Dec;46(16):3451-3462. PubMed PMID: 27659840.

5. Cuijpers P, Gentili C, Banos RM, Garcia-Campayo J, Botella C, Cristea IA. Relative effects of cognitive and behavioral therapies on generalized anxiety disorder, social anxiety disorder and panic disorder: A meta-analysis. *J Anxiety Disord.* 2016 Oct;43:79-89. doi: 10.1016/j.janxdis.2016.09.003. Review. PubMed PMID: 27637075.
6. G. Valenza, A. Greco, **C. Gentili**, A. Lanata, L. Sebastiani, D. Menicucci, A. Gemignani, EP. Scilingo. Combining electroencephalographic activity and instantaneous heart rate for assessing brain-heart dynamics during visual emotional elicitation in healthy subjects. *Philos Trans A Math Phys Eng Sci.* 2016 May 13;374(2067).
7. A. Guidi, S. Salvi, M. Ottaviano, **C. Gentili**, G. Bertschy, D. de Rossi, EP Scilingo, N. Vanello Smartphone Application for the Analysis of Prosodic Features in Running Speech with a Focus on Bipolar Disorders: System Performance Evaluation and Case Study. *Sensors (Basel).* 2015 Nov 6;15(11).
8. **C. Gentili**, I.A. Cristea, M. Angststadt, H. Klumpp, L. Tozzi, K.L. Phan, P. Pietrini, "Beyond emotions: A meta-analysis of neural response within face processing system in social anxiety". *Exp Biol Med (Maywood).* 2015 Sep 3 **IF 2.16**
9. **C. Gentili**, N. Vanello, I. Cristea, D. David, E. Ricciardi, P. Pietrini, "Proneness to social anxiety modulates neural complexity in the absence of exposure: A resting state fMRI study using Hurst Exponent". *Psychiatric Research Neuroimaging Psychiatry Res.* 2015 May 30;232(2):135-44. **IF 2.8**
10. M. Nardelli, G. Valenza, I. Cristea, **C. Gentili**, C. Cotet, D. David, A. Lanatà, E.P. Scilingo, "Characterizing Psychological Dimensions in Non-Pathological Subjects through Autonomic Nervous System Dynamics" *Frontiers in Computational Neuroscience*, 9:37, 2015. **IF 2.2**
11. D. Bonino, E. Ricciardi, G. Bernardi, L. Sani, **C. Gentili**, T. Vecchi, P. Pietrini, "Spatial imagery relies on a sensory independent, though sensory sensitive, functional organization within the parietal cortex: A fMRI study of angle discrimination in sighted and congenitally blind individuals". *Neuropsychologia.* 2015 Jan 6;68C:59-70 **IF 3.4**
12. A. Lanatà, G. Valenza, M. Nardelli, **C. Gentili**, E.P. Scilingo, "Complexity index from a personalized wearable monitoring system for assessing remission in mental health". *IEEE J Biomed Health Inform.* 2015 Jan;19(1):132-9 **IF 1.98**
13. G. Valenza, L. Citi, **C. Gentili**, A. Lanatà, E. Scilingo, R. Barbieri, "Characterization of Depressive States in Bipolar Patients using Wearable Textile Technology and Instantaneous Heart Rate Variability Assessment". *IEEE Journal of Biomedical and Health Informatics* 2014, 2015 Jan;19(1):263-74 **IF 1.98**
14. **C. Gentili**, I. Cristea, E. Ricciardi, C. Costescu, D. David, P. Pietrini, "Neurobiological Correlates of the Attitude Toward Human Empathy" *Rivista Internazionale di Filosofia e Psicologia*, 2015, 6 (1), 70-87
15. A. Lanatà, G. Valenza, A. Greco, **C. Gentili**, R. Bartolozzi, F. Bucchi, F. Frenzo, E. Scilingo, "How the autonomic nervous system and driving style change with incremental stressing conditions during simulated driving" *IEEE Transactions on Intelligent Transportation Systems.* 2014 Article in Press **IF 2.47**
16. G. Valenza, M. Nardelli; A. Lanatà, **C. Gentili**, G. Bertschy, R. Paradiso, E.P. Scilingo, "Wearable Monitoring for Mood Recognition in Bipolar Disorder based on History-Dependent Long-Term Heart Rate Variability Analysis." *IEEE Journal of Biomedical and Health Informatics.* 2014 Sep;18(5):1625-35 **IF 1.98**

17. I.A. Cristea, E. Legge, M. Prosperi, M. Guazzelli, D. David, **C. Gentili**, "Moderating effects of empathic concern and personal distress on the emotional reactions of disaster volunteers". *Disasters*. 2014 Oct;38(4):740-52 **IF 1.02**.
18. I.A. Cristea, G. Valenza, EP. Scilingo, A Szentágotai Tătar , **C. Gentili**, D. David, "Autonomic effects of cognitive reappraisal and acceptance in social anxiety: evidence for common and distinct pathways for parasympathetic reactivity". *J Anxiety Disord*. 2014 Dec;28(8):795-803 **IF 3.04**
19. G. Valenza, L. Citi, **C. Gentili**, A. Lanatà, E.P. Scilingo, R. Barbieri, "Point-process Nonlinear Autonomic Assessment of Depressive States in Bipolar Patients". *Methods Inf Med*. 2014 Jun 27;53(4) **IF 1.08**
20. H. Javelot, A. Spadazzi, L. Weiner, S. Garcia, **C. Gentili**, M. Kosel, G. Bertschy, "Telemonitoring with respect to Mood Disorders and Information and Communication Technologies: Overview and Presentation of the PSYCHE Project". *Biomed Res Int*. 2014;2014:104658. Epub 2014 Jun 24 **IF 2.7**
21. P. Piaggi, D. Menicucci, **C. Gentili**, G. Handjaras, A. Gemignani, A. Landi, "Singular Spectrum Analysis and Adaptive Filtering Enhance the Functional Connectivity Analysis of Resting State fMRI Data". *Int J Neural Syst*. 2014 May;24(3):1450010 **IF 6.06**
22. D. Rovai, D. Giannessi, M.G. Andreassi, **C. Gentili**, A. Pingitore, M. Glauber, A. Gemignani, "Mind injuries after cardiac surgery". *Journal of Cardiovascular Medicine*, 2014 Jun 13. [Epub ahead of print] **IF 1.40**
23. G. Valenza, M. Nardelli, A. Lanatà, **C. Gentili**, G. Bertschy, R. Paradiso, E.P. Scilingo, "Wearable monitoring for mood recognition in bipolar disorder based on history-dependent long-term heart rate variability analysis". *IEEE Journal of Biomedical and Health Informatics*, 2014 Sep;18(5):1625-35 **IF 1.98**
24. E. Ricciardi, G. Rota, L. Sani, **C. Gentili**, A. Gaglianese, M. Guazzelli, P. Pietrini, "How the brain heals emotional wounds: the functional neuroanatomy of forgiveness". *Front Hum Neurosci*. 2013 Dec 9;7:839 **IF 2.9**
25. **C. Gentili**, I.A. Cristea, P. Pietrini, "Would neuropsychanalysis ever be possible?" *British Journal of Psychiatry* 2013 ELETTER , <http://bjp.rcpsych.org/content/203/3/170/reply>
26. P. Piaggi, D. Menicucci, **C. Gentili**, G. Handjaras, A. Gemignani, A. Landi, "Adaptive filtering and random variables coefficient for analyzing functional magnetic resonance imaging data". *Int J Neural Syst*. 23:1350011, 2013 **IF 6.06**
27. G. Valenza, **C. Gentili**, A. Lanatà, E.P. Scilingo, "Mood recognition in bipolar patients through the PSYCHE platform: preliminary evaluations and perspectives". *Artif Intell Med*. 57:49-58, 2013 **IF 1.78**
28. V.Bambini, **C. Gentili**, E. Ricciardi, P.M. Bertinetto, P. Pietrini, "Decomposing metaphor processing at the cognitive and neural level through functional magnetic resonance imaging". *Brain Research Bulletin*, 86:203-216, ISSN: 0361-9230, 2011 **IF 2.97**
29. M.I. Gobbini, **C. Gentili**, E. Ricciardi, C. Bellucci, P. Salvini, C. Laschi, M. Guazzelli, P. Pietrini, "Distinct neural systems involved in agency and animacy detection". *J Cogn Neurosci*. 23(8):1911-20, 2011 **IF 4.68**
30. W. Liao, H. Chen, Y. Feng, D. Mantini, **C. Gentili**, Z. Pan, J. Ding, X. Duan, C. Qiu, S. Lui, Q. Gong, W. Zhang, "Selective aberrant functional connectivity of resting state networks in social anxiety disorder". *Neuroimage*. 52(4):1549-58, 2010 **IF 6.13**
31. S. Danti, E. Ricciardi, **C. Gentili**, M.I. Gobbini, P. Pietrini, M. Guazzelli, Is Social Phobia a

- "Mis-Communication" Disorder? Brain Functional Connectivity during Face Perception Differs between Patients with Social Phobia and Healthy Control Subjects". *Front Syst Neurosci.* 22;4:152, 2010
32. L. Sani, E. Ricciardi, **C. Gentili**, N. Vanello, J.V. Haxby, P. Pietrini, "Effects of Visual Experience on the Human MT+ Functional Connectivity Networks: An fMRI Study of Motion Perception in Sighted and Congenitally Blind Individuals". *Front Syst Neurosci.* 4:159, 2010
 33. W. Liao, C. Qiu, **C. Gentili**, M. Walter, Z. Pan, J. Ding, W. Zhang, Q. Gong, H. Chen, "Altered effective connectivity network of the amygdala in social anxiety disorder: a resting-state FMRI study". *PLoS One* 5(12):e15238, 2010 **IF 3.53**
 34. **C. Gentili**, E. Ricciardi, M.I. Gobbini, M.F. Santarelli, J.V. Haxby, P. Pietrini, M. Guazzelli, "Beyond Amygdala: Default mode network activity differs between patients with Social Phobia and healthy controls". *Brain Res Bull.* 79(6):409-13, 2009 **IF 2.97**
 35. **C. Gentili**, M.I. Gobbini, E. Ricciardi, N. Vanello, P. Pietrini, J.V. Haxby, M. Guazzelli, "Differential modulation of neural activity throughout the distributed neural system for face perception in patients with Social Phobia and healthy subjects". *Brain Res Bull.*, 77:286-292, 2008 **IF 2.97**
 36. S. Casarotto, A.M. Bianchi, E. Ricciardi, **C. Gentili**, N. Vanello, M. Guazzelli, P. Pietrini, G.A. Chiarenza, S. Cerutti, "Spatiotemporal dynamics of single-letter reading: a combined ERP-FMRI study". *Arch Ital Biol.*, 146(2):83-105, 2008 **IF 1.42**
 37. E. Ricciardi, N. Vanello, L. Sani, **C. Gentili**, E.P. Scilingo, L. Landini, M. Guazzelli, A. Bicchi, J.V. Haxby, P. Pietrini, "The effect of visual experience on the development of functional architecture in hMT+". *Cereb Cortex.* 17(12):2933-9, 2007 **IF 8.30**
 38. I. Guerrini, **C. Gentili**, G. Nelli, M. Guazzelli, "A follow up study on the efficacy of metadoxine in the treatment of alcohol dependence". *Subst Abuse Treat Prev Policy*, 1:35-39, 2006 **IF 1.45**
 39. I. Guerrini, **C. Gentili**, M. Guazzelli, "Alcohol Consumption and Heavy Drinking: A Survey in Three Italian Villages". *Alcohol and Alcoholism*, 41(3):336-40, 2006 **IF 2.09**
 40. E. Ricciardi, D. Bonino, **C. Gentili**, L. Sani, P. Pietrini, T. Vecchi, "Neural Correlates of Spatial Working Memory in Humans: A Functional Magnetic Resonance Imaging Study Comparing Visual and Tactile Processes". *Neuroscience*, 139(1):339-49, 2006 **IF 3.45**
 41. V. Bambini, **C. Gentili**, P. Pietrini, "On Cultural Constraints on Pirahã Grammar". *Current Anthropology*, 50, 2006 **IF 2.84**
 42. **C. Gentili**, P. Panicucci, M. Guazzelli, "Psychiatric comorbidity and chronicisation in primary headache". *J Headache Pain*, 6:338-40, 2005 **IF 3.28**

Conference proceedings in Pubmed or Scopus indexed peer-reviewed journals

32. A. Guidi, J. Schoentgen, G. Bertschy, **C. Gentili**, L. Landini, EP Scilingo, N. Vanello, "Voice quality in patients suffering from bipolar disease". *Conf Proc IEEE Eng Med Biol Soc.* 2015 Aug;2015:6106-9.
33. M. Nardelli, G. Valenza, **C. Gentili**, A. Lanatà, EP Scilingo, "Temporal trends of neuro-autonomic complexity during severe episodes of bipolar disorders". *Conf Proc IEEE Eng*

- Med Biol Soc. 2014 Aug;2014:2948-51
34. S. Mariani, M. Migliorini, G. Tacchino, **C. Gentili**, G. Bertschy, S. Werner, A.M. Bianchi, "Clinical state assessment in bipolar patients by means of HRV features obtained with a sensorized T-shirt". Conf Proc IEEE Eng Med Biol Soc. 2012;2012:2240-3
 35. N. Vanello, A. Guidi, **C. Gentili**, S. Werner, G. Bertschy, G. Valenza, A. Lanatà, E.P. Scilingo, "Speech analysis for mood state characterization in bipolar patients". Conf Proc IEEE Eng Med Biol Soc.2012; 2012:2104-7
 36. S. Casarotto, A.M. Bianchi, S. Cerutti, N. Vanello, E. Ricciardi, **C. Gentili**, L. Sani, D. Bonino, M. Guazzelli, P. Pietrini, L. Landini, GA. Chiarenza, "Combination of event-related potentials and functional magnetic resonance imaging during single-letter reading". Conf Proc IEEE Eng Med Biol Soc. 2006;1:984-7

Publications in Italian

37. **C. Gentili**, M. Guazzelli, "Cefalea attribuita a disturbi psichiatrici". Trattato Italiano delle Cefalee. Centro Scientifico Editore 2010:499-508
38. M. Guazzelli, **C. Gentili**, "Immaginazione, emozioni, cervello". Capitolo di libro: V. Gessa Kurotschka e C. De Luzenberger (a cura di), "Immaginazione etica interculturalità". Mimesis editore, Udine, 2009:177-194
39. **C. Gentili**, M. Guazzelli, "Dolore e sofferenza: categorie distinte o poli di una dimensione unica?". Capitolo di libro: A. Trucchio (a cura di), "Anatomia del corpo, anatomia dell'anima". Quodlibet, Macerata, 2009:117-136
40. M. Guazzelli, **C. Gentili**, "Disturbi del sonno e disturbi dell'umore nella prospettiva dell'approccio diagnostico di spettro". Capitolo di libro: G.B. Cassano e A. Tundo (a cura di), "Lo spettro dell'Umore – Psicopatologia e Clinica". Masson, Milano, 2008: 77-83
41. M. Guazzelli, **C. Gentili**, "Alcune riflessioni in tema di insonnia e disturbi depressivi/ Some reflections on the issue of insomnia and depressive disorders". Giornale Italiano di Psicopatologia - Italian Journal of Psychopathology" 2008, 14:389-395
42. **C. Gentili**, F. Battaglia, M. Guazzelli, "Alle radici delle emozioni e dei disturbi dell'umore: il contributo delle tecniche di esplorazione funzionale del cervello in vivo". L'altro, 2008,11(1):14-21
43. **C. Gentili**, A. Del Carlo, "Epilessia e disturbi dell'umore" capitolo di libro: S. Jensen, F. Giorgi, A. Iudice (a cura di), "La personalizzazione della cura in Epilessia". Primula Edizioni, Pisa, 2008:86-91
44. M. Guazzelli, **C. Gentili**, L. Palagini, "Sogno, emozioni e salute mentale". Capitolo di libro: "DNA della salute". C.G. Edizioni Medico Scientifiche, Torino, 2008:107-115
45. M. Guazzelli, **C. Gentili**, "Identità e riconoscimento: dalla psicopatologia alle neuroscienze". Capitolo di libro: V. Gessa Kurotschka e G. Cacciatore (a cura di), "Saperi Umani e Consulenza Filosofica". Meltemi, Roma, 2007:225-236
46. P. Panicucci, **C. Gentili**, M. Guazzelli, "Epilessia e aspetti di Psicologia". Capitolo di libro: A. Iudice e L. Murri (a cura di), "Cognitività, psicologia e psicopatologia in epilessia". Primula edizioni, Pisa, 2006:13-31
47. L. Palagini, **C. Gentili**, M. Guazzelli, "Insonnia e vulnerabilità ai disturbi di ansia e

- dell'umore". Noós 2004 vol. 10(1):25-32
48. **C. Gentili**, L. Palagini, S. Pellegrini, M. Guazzelli, "Insonnia e depressione: evidenze per un nuovo atteggiamento dello psichiatra". *Problemi in Psichiatria* 2004, 35:5-28
 49. E. Ricciardi, **C. Gentili**, N. Watson, P. Pietrini, "Verso la comprensione delle differenze di genere". *Problemi in Psichiatria* 2004, 35:45-59
 50. **C. Gentili**, I.A. Cristea, P. Pietrini, "Atti del XVI Congresso Nazionale dell'Associazione Italiana di Psicologia, Sezione Clinica e Dinamica", Edizioni Plus, Pisa, 2014

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