

*CURRICULUM VITAE ET STUDIORUM*  
**CLAUDIO SINGH SOLORZANO**

<b>Date of birth</b>	21/11/1994
<b>Nationality</b>	Italian
<b>E-mails</b>	<a href="mailto:csolorzano@fatebenefratelli.eu">csolorzano@fatebenefratelli.eu</a>
<b>Skype</b>	claudiosinghsolorzano
<b>Web page</b>	<a href="#">Claudio Singh Solorzano</a>

## **RESEARCH EXPERIENCE**

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01/12/22-ongoing

**Postdoctoral Researcher** at Lab Alzheimer's Neuroimaging & Epidemiology – IRCCS Istituto Centro San Giovanni di Dio Fatebenefratelli (Brescia, Italy)

Supervisors: Dr. Cristina Festari, Dr. Giovanni Battista Frisoni

I am working in Alzheimer's Neuroimaging & Epidemiology Laboratory (Group head: Dr Michela Pievani) on two projects: "Validation of the Italian consensus recommendation" (P.I: Dr Giovanni Battista Frisoni) and "A novel virtual reality intervention for caregivers of people with dementia" (P.I: Dr Cristina Festari).

01/11/19-ongoing

**PhD candidate in Cognitive, Social and Affective Neuroscience** at Department of Psychology – Sapienza University of Roma (Roma, Italy)

Supervisors: Prof. Cristiano Violani, Prof. Caterina Grano

I am working in Prof. Cristiano Violani's Clinical Psychophysiology and Health Psychology Laboratory, mainly on psycho-social and physiological predictors of physical and mental well-being in different "at risk" populations (i.e., caregivers, pregnant women, and university students). In particular, I am interested in cardiovascular (e.g. Heart Rate Variability – HRV) and biological (e.g. cortisol) index of stress and their association with the development of mental disorders (e.g. depression, anxiety) and physical diseases. My main PhD project is on the prepartum psychophysiological predictors of postpartum depression. In addition, I am working on other projects, such as a study on the impact of positive aspects of caregiving on caregivers' mental health and two studies related to the COVID-19 pandemic focusing on predictors of preventive behaviours.

01/03/22-31/08/22

**Visiting research period** (PhD) at Psychobiology Group Laboratory (Group Leader: prof. Andrew Steptoe), Department of Behavioural Science and Health – Institute of Epidemiology and Health Care, University College London, UCL (London, United Kingdom)

Research project: “*Biomarkers of stress*”

Supervisor: Prof. Andrew Steptoe

I worked in Prof. Andrew Steptoe’s Psychobiology Laboratory on biological predictors of chronic stress in students and older adults. As a result, I have improved my knowledge of psychophysiological research methods and the use of hair cortisol as a reliable and valid measure of chronic stress. In addition, I have investigated the systematic and longitudinal comparison between hair and salivary cortisol and acquired advanced knowledge about collecting, analysing and interpreting biological data concerning psychological and health outcomes.

01/03/2018-31/08/2018

**Pre-lauream internship** (Master’s degree) at Psychobiology Group Laboratory (Group Leader: prof. Andrew Steptoe), Department of Behavioural Science and Health – Institute of Epidemiology and Health Care, University College London, UCL (London, United Kingdom)

Research project: “*Emotional factors and coronary heart disease*”

Supervisors: Prof. Andrew Steptoe, Dr. Lydia Poole

I spent my pre-lauream Erasmus+ for Traineeship scholarship at Andrew Steptoe’s Psychobiology Group Laboratory, University College London. I have developed knowledge and skill in advanced psychobiological research methods, conceptualising, analysing, and interpreting clinical and psychological data, and presenting research plans and analyses in English. I have acquired a greater knowledge of the cardiovascular system and its disorders, emotional factors’ contribution to cardiovascular disorders, and the interrelationships between psychological states and biological function. I have also learned the importance of caregivers for the patient’s recovery and the interrelationship between their well-being. I have acquired advanced statistical and analytical skills in analysing different types of data and has developed knowledge and skill in writing and preparing papers for publication in peer-reviewed journals.

01/11/2017-28/02/2018

**Research Assistant** at Psychophysiology Laboratory (Group Leader: prof. Daniela Palomba), Department of General Psychology – University of Padova (Padova, Italy)

Supervisor: Prof. Daniela Palomba

I assisted in ECG data collection and analyses on a project exploring the relationship between depression and HRV in ischemic heart disease patients undergoing percutaneous coronary angioplasty surgery.

12/10/2015-10/10/2016

**Pre-lauream internship** (Bachelor’s degree) at **Mental Health Department** of “ULSS 8 Berica”, Vicenza (Vicenza, Italy)

Supervisors: Dr. Livio dalla Verde, Dr. Raffaello Conti, Dr. Silvia Olivetto

During this pre-lauream internship, I worked in the Psychiatric Department, Mental Health Center (CSM) and Rehabilitation Department of “ULSS 8 Berica”. Briefly, I assessed patients with different mental diseases (depression, anxiety, schizophrenia, etc) supervised by psychologists, wrote and updated patients’ clinical records, participated in the activities organised by the Rehabilitation Department and attended weekly staff meetings. Moreover, I developed and carried out two rehabilitative groups (“Assertiveness Group” and “Physical Activity Group”) with 20 psychiatric patients in the Rehabilitation Department (supervised by Dr. Raffaello Conti). Finally, I drafted my dissertation about the effect of the “Assertiveness Group” on these patients, using a longitudinal study design with pre- and post-assessment of patients and different statistical analyses (ANOVA, regression, etc.).

## **EDUCATION**

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01/11/2019-ongoing

**International PhD candidate in Cognitive, Social and Affective Neuroscience (CoSAN)**, Sapienza University of Roma (Roma, Italy)

06/10/2016-14/10/2019

Master’s degree in “**Clinical Psychology**”, Department of General Psychology, University of Padova (Padova, Italy).

Thesis: *‘Emotional and Cortisol Response in Caregivers of Coronary Artery Bypass Graft Surgery Patients’*

Supervisors: Prof. Daniela Palomba, Prof. Andrew Steptoe, Dr. Lydia Poole

10/09/2013-26/09/2016

Bachelor’s degree in “**Psychological Sciences and Techniques**”, Department of Developmental Psychology and Socialisation, University of Padova (Padova, Italy).

Thesis: *‘Evaluation of Assertiveness Training for Psychiatric Patients of a Psycho-social Rehabilitation Service’*

Supervisor: Prof. Paolo Michielin

12/09/2008-15/07/2013

Scientific High School, Liceo Scientifico G.B. Quadri, Vicenza (Vicenza, Italy)

## **MAIN COURSES, CONFERENCES, AND WORKSHOP ATTENDED**

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23-24/11/22

Attendance to Workshop in “Workshop on Design and Analysis of Dyadic Longitudinal Studies”, prof. Niall Bolger, Sapienza University, Rome, Italy.

03-04/11/22

Attendance to Workshop in “*Electrogastragram (EGG): Theoretical and Practical Implications*”, prof. Ignacio Rebollo, Sapienza University, Rome, Italy.

26/09/22

Attendance to Workshop in “Meta-analisi applicata (in salsa frequentistica e bayesiana), prof. Gianmarco Altoè e Massimiliano Pastore, Department of Developmental Psychology and Socialisation, University of Padova, Padova, Italy.

29/08/22 – 03/09/22

Attendance to Highly Specialized Course (Corso Alta Formazione) in “*I modelli di equazioni strutturali: teoria e applicazioni con il software Mplus*”, Prof. Claudio Barbaranelli and prof. Valerio Ghezzi, Sapienza University, Rome, Italy.

Final grade: Attendance certificate with the assignment of 6 CFU.

7-8/07/22

Attendance to Short Course in “*Introduction of Poisson Regression*”, prof. Chibueze Ogonnaya, University College London, London, United Kingdom.

23-24/06/22

Attendance to Course in “*Introduction of Bayesian Modeling in R*”, prof. Marco Tullio Liuzza, Sapienza University, Rome, Italy, online course.

14-17/06/22

Attendance to Summer School in “*Introduzione ai modelli di equazioni strutturali con R*”, curatorship: Prof. Fabio Presaghi, Sapienza University, Rome, Italy, online Summer School.

Final grade: Attendance certificate with the assignment of 4 CFU.

21-22/03/2022

Attendance to “*Equazioni strutturali e path analysis*”, Collegio dei Docenti e Ricercatori di Psicologia Clinica, online seminar.

Final grade: Attendance certificate.

27-28/01/2022

Attendance to ANT Neurometing (virtual edition), online meeting.

5, 10, 19, 23, 24, 30/11/2021, 1, 2, 14, 15, 16, 17/12/2021

Attendance to “*Formazione Sapienza sulle soft skills per dottorandi*”, Sapienza University, Rome, Italy, online seminar.

Final grade: Attendance certificate.

28-29/10/2021

Attendance to “*Matlab basic computations*” and “*Matlab experimental applications*”, Dr. Riccardo Villa, Sapienza University, Rome, Italy, online course.

23, 30/06/2021 & 07/07/2021

Attendance to ‘*Understanding media and how to work with them*’, Dr. Davide Pagnanelli, Fondazione Santa Lucia, Rome, Italy, online course.

24-27/05/21

Summer School in “*Introduzione all’Analisi dei Dati con R*”, curatorship: Prof. Fabio Presaghi, Sapienza University, Rome, Italy, online Summer School.

Final grade: Attendance certificate with the assignment of 4 CFU.

14/05/2021

Attendance to ‘*Power Analysis Course*’, prof. Marco Perugini (“*Foundation of power analysis and practical implementations in GPower*”) and prof. Giulio Costantini (“*Simulations of power analysis for complex experimental designs in R*”), Sapienza University, Rome, Italy, online course.

30/04/2021

Attendance to “*Neuroscience goes social 4.0: The Plasticity of Body Representation and Social Perception*”, (Speakers: prof. Giuseppe Riva (Università Cattolica del Sacro Cuore, IT) prof. Domna Banakou (Universitat de Barcelona), prof. Lucia Garrido (City, University of London, UK) and dr. Alessandro Monti (Sapienza University, IT), Sapienza University, Rome, Italy, online seminar.

09-11/03/2021

Attendance to “*General Introduction to Biofeedback Peripherals*”, Association for Applied Psychophysiology and Biofeedback (AAPB), online workshop.

Final grade: Attendance certificate.

6, 7, 14, 21/11/2020

Attendance to ‘*Biofeedback and Neurofeedback – Clinical application and treatment protocols*’, Psychophysiology Service, University of Padova, Padova, Italy, online course. The course had four sections: 1-Biofeedback: Framework and Signals Registration, 2-Biofeedback and Stress Management, 3-Biofeedback and Chronic Pain and 4-Neurofeedback: Framework and Clinical Applications.

Final grade: Final exams passed with the assignment of 25.5 ECTS.

01/11/2019-31/10/2020

Attendance to ‘*An Introduction to Structural Equation Models (SEM)*’ (prof. Michele Vecchione), ‘*Variance Analysis (ANOVA)*’ (prof. Laura di Giunta), ‘*Stereotype Threat in the Workplace: Health and Safety Outcomes of Pregnancy and Work-Family Stereotype Threats*’ (prof. Thaira Michelle Probst), ‘*Introduzione alla mediazione, alla moderazione e ai processi condizionali*’ (prof. Guido Alessandri), “*Job Insecurity: Definitions, Measurement and Outcomes*” (prof. Antonio Chirumbolo), ‘*Cluster Analysis*’ (prof. Maria Gerbino), ‘*Positivity and Personality*’ (prof. Gian Vittorio Caprara), ‘*Scientific Writing*’ (prof. Arnaldo Zelli), ‘*Factorial Invariance*’ (prof. Claudio Barbaranelli) and other seminars/courses of the PhD in Personality and Organisational Psychology, Department of Psychology, Sapienza University, Rome, Italy.

28/02/2020

Attendance to ‘*The Body in the Brain & The Social World*’ seminar (Speakers: prof. Sarah Garfinkel, prof. Giovanni Pezzulo, dr. Maria Serena Panasiti, prof. Andrea Serino), Sapienza University, Rome, Italy.

19/03/2018-12/06/2018

Attendance to ‘*Quantitative and Qualitative Research Methods*’, ‘*Cardiovascular disease*’ and other lecturers of the MSc in Health Psychology, Department of Behavioural Science and Health, University College London, London, United Kingdom.

29/01/2018-10/02/2018

Winter School in ‘*Food and Health*’, Department of Land, Environment, Agriculture, and Forestry, University of Padova, Padova, Italy. The Winter School program ‘*Food & Health*’ focused on the most relevant aspects of food quality and human nutrition in order to understand how they are related and how they affect human health through dietary habits.

Final grade: Final exam passed with the assignment of 6 ECTS

30/05/2017-07/06/2017

Advanced Course for Scientific Research (CARS) in ‘*Psychotoolbox di Matlab e Matlab di Base*’, Department of General Psychology, University of Padova, Padova, Italy.

Final grade: Final exam passed with a certificate of attendance

## **CERTIFICATE AND AWARDS**

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01/12/2020-30/11/2022 – Research Fellowship for Research Activity on “*Determinanti psicofisiologiche della sintomatologia depressiva in momenti di vita stressanti: la gravidanza*”, scientific supervisor: Prof. Cristiano Violani/Prof. Caterina Grano, Department of Psychology, Sapienza University, Roma, Italy

11/10/2022 – “Avvio alla Ricerca” Fellowship on “*Associazione longitudinale tra concentrazioni di cortisolo nella saliva e nei capelli: validazione del cortisolo nei capelli come indice fisiologico di stress cronico*”, Sapienza University, Roma, Italy.

01/02/2020-31/07/2020 – Junior Scholarship for Research Activity on “*Raccolta di dati elettrofisiologici (ECG) e comportamentali in partecipanti in gravidanza e non, sulla registrazione e sull’analisi dei dati con metodologie statistiche avanzate e sulla scrittura dei risultati*”, scientific supervisor: Prof. Cristiano Violani, Department of Psychology, Sapienza University, Roma, Italy

16/08/2018 – Online Linguistic Support/Erasmus+, **Europass level C1** (English Common European Framework of Reference for Languages - CEFR)

06/12/2017 – IELTS (Academic) International English Language Testing System – **Level B2** (expires 06/12/2019)

10/10/2017 – Erasmus+ for Traineeship Program Scholarship for Academic Merit

13/05/2012 – European Computer Driving Licence (ECDL)

## **PUBLICATIONS**

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Dorison, C.A., Lerner, J.S., Heller, B.H., Rothman, A.J., Kawachi, I.I., Wang, K., Rees, V.W., Gill, B.P., Gibbs, N., Ebersole, C.R., Vally, Z., Tajchman, Z., Zsido, A.N., Zrimsek, M., Chen, Z., Ziano, I., Gialitaki, Z., Ceary, C.D., Lin, Y., ... [Grano, C., **Singh Solorzano, C.**] ... Coles, N.A. (2022). In COVID-19 health messaging, loss framing increases anxiety with little-to-no concomitant benefits: experimental evidence from 84 countries. *Affective Science*, 3, 577-602. <https://doi.org/10.1007/s42761-022-00128-3>

**Singh Solorzano, C.**, Violani, C., Grano, C., (2022). Pre-partum HRV as a predictor of postpartum depression: The potential use of a smartphone application for physiological recordings. *Journal of Affective Disorders*, 319, 172-180. <https://doi.org/10.1016/j.jad.2022.09.056>

**Singh Solorzano, C.**, Panasiti, M.S., Di Pucchio, A., Grano, C., (2022). The impact of positivity and parochial altruism on protective behaviours during the first COVID-19 lockdown in Italy. *International Journal of Environmental Research and Public Health*, 19 (16), 10153. <https://doi.org/10.3390/ijerph191610153>

**Singh Solorzano, C.**, Porciello, G., Violani, C., Grano, C., (2022). Body image dissatisfaction and interoceptive sensibility significantly predict postpartum depressive symptoms. *Journal of Affective Disorders*, 311, 239-246. <https://doi.org/10.1016/j.jad.2022.05.109>

Legate, N., Ngyuen, T., Weinstein, N., Moller, A., Legault, L., Vally, Z., Tajchman, Z., Zsido, A.N., Zrimsek, M., Chen, Z., Ziano, I., Gialitaki, Z., Ceary, C.D., Jang, Y., Lin, Y., Kunisato, Y., Yamada, Y., Xiao, Q., Jiang, X., ... [**Singh Solorzano, C.**] ... Primbs, M.A. (2022). A global experiment on motivating social distancing during the COVID-19 pandemic. *Proceedings of the National Academy of Sciences*. 119 (22). <https://doi.org/10.1073/pnas.2111091119>

Grano, C., **Singh Solorzano, C.**, Di Pucchio, A., (2022). Predictors of protective behaviours during the Italian COVID-19 pandemic: An application of protection motivation theory. *Psychology & Health*. <https://doi.org/10.1080/08870446.2022.2062355>

Wang, K., Goldenberg, A., Dorison, C.A., Miller, J.K., Uusberg, A., Lerner, J.S., Gross, J.J., Agesin, B.B., Bernardo, M., Campos, O., Eudave, L., Grzech, K., Ozery, D.H., Jackson, E.A., Luis Garcia, E.O., Drexler, S.M., Jurković, A.P., Rana, K., Wilson, J.P., ... [**Singh Solorzano, C.**] ... Moshontz, H. (2021). A multi-country test of brief reappraisal interventions on emotions during the COVID-19 pandemic. *Nature Human Behaviour*, 5, 1089–1110. <https://doi.org/10.1038/s41562-021-01173-x>

**Singh Solorzano, C.**, Leigh, E., Steptoe, A., Ronaldson, A., Kidd, T., Jahangiri, M., Poole, L., (2021). The impact of caregiving burden on mental well-being in coronary artery bypass graft surgery caregivers: The mediatory role of perceived social support. *International Journal of Environmental Research and Public Health*, 18(10), 5447. <https://doi.org/10.3390/ijerph18105447>

**Singh Solorzano, C.**, Steptoe, A., Leigh, E., Kidd, T., Jahangiri, M., Poole, L. (2019). Pre-surgical caregiver burden and anxiety are associated with post-surgery cortisol over the day in caregivers of coronary artery bypass graft surgery patients. *International Journal of Behavioural Medicine*, 26(3), 216-322. [doi:10.1007/s12529-019-09775-6](https://doi.org/10.1007/s12529-019-09775-6)

## CONFERENCE PROCEEDINGS

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**Singh Solorzano, C.**, Spinoni, M., Violani, C., Grano, C. (2022). Stress relato al COVID-19 e depressione post-partum: il ruolo della ruminazione e della positivity. *Proceedings of XIV Giornate Nazionali di Psicologia Positiva*. University Federico II Napoli, Italy.

Spinoni, M., **Singh Solorzano, C.**, Malorgio, M., Vasquez, A., Grano, C. (2022). Caregiver burden, aspetti positivi del caregiving e depressione in caregiver di pazienti affetti da demenza. *Proceedings of XV Convegno Nazionale di Psicologia Dell’Invecchiamento*. University of Padova, Italy.

**Singh Solorzano, C.**, Di Pucchio, A., Grano, C. (2021). Salute mentale e comportamenti preventivi durante la seconda fase dell’emergenza da COVID-19. *Proceedings of XIV Convegno Nazionale di Psicologia Dell’Invecchiamento*. University of Padova, Italy.

**Singh Solorzano, C.**, Grano, C., Violani, C., Lucidi, F. (2020) Vital Exhaustion, Sonno e Qualità della Vita nei Caregiver di Pazienti Affetti da Malattia di Alzheimer. *Proceedings of XIII Convegno Nazionale di Psicologia Dell’Invecchiamento*. University of Padova, Italy.

## ORAL/POSTER PRESENTATIONS

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28/09/23

Oral presentation at XXX Congresso AIP, “*The role of external and internal body changes in the prediction of postpartum depressive symptoms*” in interdisciplinary symposium: “*The prenatal mother-infant health: interdisciplinary perspective on adaptation and stress in pregnancy*”, University of Padova, Italy.

10/06/2022

Oral presentation at XIV Giornate Nazionali di Psicologia Positiva, “*Stress relato al COVID-19 e depressione post-partum: il ruolo della ruminazione e della positivity*”, online presentation.

29/11/2021

PhD yearly progress report, “*Psychophysiological predictors of postpartum depression*”, online presentation.

29/05/2021

Oral presentation at XIV Convegno Nazionale di Psicologia dell’Invecchiamento, “*Salute mentale e comportamenti preventivi durante la seconda fase dell’emergenza da COVID-19*”, online presentation.

28/10/2020

PhD yearly progress report, “*Psycho-social and physiological predictors of physical and mental well-being in different “at risk” populations (i.e., caregivers, pregnant women)*”, online presentation.

## SOFTWARE KNOWLEDGE

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- Proficient in Microsoft Office suite and Adobe Photoshop packages
- Excellent use of Zotero and Mendeley
- Excellent use of Qualtrics and SurveyMonkey platforms for remote data gathering

- Excellent use of different Operative Systems: Windows, Mac, Android OS, IOS
- Excellent use of SPSS and PROCESS macro
- Good use of RSTUDIO
- Good use of Mplus8
- Basic use of Matlab and STATISTICA analysis software
- Good use of E-Prime3 software and Testable to create behavioural tasks
- Excellent knowledge of 'ProComp Infiniti' ECG, skin conductance and skin temperature recording system and Kubios-HRV analysis software
- Excellent knowledge of photoplethysmography recording with Android smartphone applications (e.g., Heart Rate Variability HRV Camera)
- Basic knowledge of 'Biopac Student Lab' recording system (ECG Analysis)

## PRACTICAL SKILLS

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- Physiological recording – Electrocardiography recording, heart rate monitoring, photoplethysmography recording, pain and stress inductions, biofeedback procedures, ECG, skin conductance and skin temperature data acquisition.
- Biological sample collection – saliva collection (cortisol analyses), hair collection (cortisol analyses).
- Quantitative Analysis – Linear/multiple/ hierarchical/logistic/Poisson regression, bootstrapping analyses, univariate/multivariate analysis of variance, non-parametric models, mediation and moderation analysis, structural equations modelling (SEM), dyadic data analysis, statistical analysis of ECG and behavioural data, preparation of the scientific paper.
- Qualitative Analysis – Questionnaire development and factor analysis, sampling and coding protocols, interviewing, administration of questionnaires and stress tests.

## LANGUAGE SKILLS

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**Languages** – Spanish, Italian (mother tongue), English (B2)

*In compliance with the GDPR and the Italian Legislative Decree no. 196 dated 30/06/2003, I hereby authorise you to use and process my personal details contained in this document.*

Date: 14/01/2023

Signature:

