

# Gabrieli Giulio

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## SKILLS

### CODING

Daily

Python • HTML • JavaScript

CSS • PHP • LaTeX

Often

Java • MySQL • Angular.js

MATLAB • jQuery • R • Bootstrap

• Materialize.css

Once in a while

AS3 • Ruby • C# • Node.js

### SOFTWARE AND TOOLS

Daily

Brackets • Spyder IDE • Filezilla

Google Suite • Git Kraken

TeXstudio

Often

Adobe Photoshop & Adobe

Illustrator • GIMP • Audacity

EEGLab • Axure RP • OpenSignal

Android Studio

Once in a while

NetBeans • Adobe Flash Pro

### USER RESEARCH

Daily

User-Centered Design • Concept

Testing • Questionnaire

Click-stream Analysis

Often

Card Sorting • Eye-tracking

Interviews • Participatory Design

A/B testing

Once in a while

Focus Groups

### NEUROSCIENCE

Daily

Signal processing (fNIRS, EEG,

ECG, EMG, EDA, EDA,

Pupillometry)

Acoustic Analysis

Often

Questionnaire • Eye-Tracking

Behavior Analysis

Once in a while

Thermal imaging

### VOLUNTEER WORK

Translator @ Raspberry Pi

Foundation

## EDUCATION

### NANYANG TECHNOLOGICAL UNIVERSITY

PHD STUDENT - PSYCHOLOGY PROGRAM

January 2019 - December 2022

School of Social Sciences (SSS)

CGPA: 4.80 / 5.0

GPA: 3.88 / 4.0

### UNIVERSITY OF TRENTO

MASTER DEGREE IN HUMAN COMPUTER INTERACTION

September 2016 - July 2018

Department of Psychology and Cognitive Science Department of Information

Engineering and Computer Science

GPA: 3.64 / 4.0

110/110 with honors

### BACHELOR DEGREE IN INTERFACES AND COMMUNICATION

TECHNOLOGY

September 2013 - September 2016

Department of Psychology and Cognitive Science

GPA: 3.63 / 4.0

110 / 110 with honors

### NAGASAKI UNIVERSITY

ERASMUS+

October 2016 - March 2017

### NANYANG TECHNOLOGICAL UNIVERSITY

SUMMER RESEARCH INTERNSHIP

June - July 2016 | Singapore

### I.T.I.S. G.FERRARIS

INDUSTRIAL EXPERT TECHNICIAN: CHEMISTRY WITH SPECIALIZATION  
IN FOOD TECHNOLOGY

September 2008 - June 2013

## EXPERIENCE

### SOCIAL AND AFFECTIVE NEUROSCIENCE LAB LAB | INTERN

January 2019 - Ongoing | Nanyang Technological University, Singapore

Signal processing (ECG, EDA, EMG, EEG, infant cry), Experimental design &

Data collection, Big Data Analysis, Manuscript preparation

### AFFILIATIVE BEHAVIOUR AND PHYSIOLOGY LAB | INTERN

June 2015 - December 2018 | University of Trento, Italy

Signal processing (ECG, EDA, EMG, EEG, infant cry), Experimental design &

Data collection, Manuscript preparation

### HELLAS VERONA F.C. S.P.A. | DATA ENTRY

June 2014 - December 2018 | Verona, Italy

IT support and digital tickets management.

### UNIVERSITY OF TRENTO | RESEARCH ASSISTANT

June 2018 - September 2018 | University of Trento, Italy

Data analysis, manuscript preparation, speaker at scientific meetings.

### UNIVERSITY OF TRENTO | SCIENTIFIC MEETING ORGANIZATION

June 2017 - August 2017 | University of Trento, Italy

Website design and IT support for 13th International Infant Cry Workshop.

## OTHER

## INFORMATION

### LANGUAGES

- Italian - Native speaker
- English - IELTS 7.5
- German - Gothe A1

### CERTIFICATIONS

- Human Subjects Research - Social & Behavioral Research - CITI Program (2019)
- Child & Infant First Aid Provider Course - Singapore Red Cross Academy (2019)
- Python 3 - Medium level - SkillValue (2018)

### STUFF I LOVE

Nutella • Bodhrán • Raspberry Pi  
Coffee • Nintendo • Reading  
Linux • Retrogaming • Reddit  
Basketball • Computer Vision

## PROFILES

LinkedIn://giulio-gabrieli

GitHub://Gabrock94

GitLab://gack94

Orcid://0000-0002-9846-5767

Researchgate://Giulio\_Gabrieli

## AWARDS

- **1st place**, UX Challenge, 1-2 December 2017, Trento (Italy)
- **Merit Award 2018**, University of Trento, Trento, (Italy)

## OTHER POSITIONS

- **Vice-President** School of Social Sciences' Graduate Student Club, (2019 - ongoing)

## EXPERIENCE - CONTINUED

### RTS - REALTIME SPORTCAST | MATCH REPORTER

June 2013 – July 2015 | Verona, Italy

### P.P.T. S.R.L. | INTERN

September 2012 | Zevio, Italy

Quantitative analysis of wastewater.

### ANTICO MOLINO ROSSO S.R.L. | INTERN

June 2012 - July 2012 | Zevio, Italy

Qualitative and quantitative analysis of flour.

## PUBLICATIONS

### IN PRESS

- Azhari A., Leck W. Q., **Gabrieli G.**, Bizzego A., Rigo P., Setoh P., Bornstein M. H., Esposito G. (Accepted for publication), *Parenting Stress Undermines Mother-Child Brain-to-Brain Synchrony: A Hyperscanning Study*, Scientific Reports
- Bizzego, A., **Gabrieli, G.**, Azhari, A., Setoh, P., Esposito, G. (Accepted for publication). *Computational methods for the assessment of empathic synchrony*, Smart Innovation, Systems and Technologies.
- **Gabrieli G.**, Azhari A., Esposito G. (in press), *PySiology: a Python Package for Physiological Feature Extraction* in A. Esposito et al. *Neural Approaches to Dynamics of Signal Exchanges*, Smart Innovation, Systems and Technologies 151

### 2019

- Bizzego A., Battisti A., **Gabrieli G.**, Esposito G., Furlanello C. (2019), *pyphysio: a physiological signal processing library for data science approaches in psycho-physiology*, SoftwareX, vol 10, DOI: 10.1016/j.softx.2019.100287 [Open Access Article - PDF]
- **Gabrieli G.**, Leck. W., Bizzego A., Esposito G. (2019), *Are Praat's default settings optimal for Infant cry analysis?*, Proceedings of the Linux Audio Conference 2019 [Conference Proceedings - PDF]

### 2018

- Esposito, G., Venuti P., Iandolo G., de Falco S., **Gabrieli G.**, Wei C., Bornstein, M.H., (2018), *Microgenesis of Typical Storytelling*, Early Child Development and Care, DOI:10.1080/03004430.2018.1554653 [PDF]

## TALKS & POSTERS

- Bizzego, A., **Gabrieli, G.**, Azhari, A., Setoh, P., Esposito, G. (2019). *Computational methods for the assessment of empathic synchrony*, 29th Italian Workshop on Neural Networks, 12 - 14 June 2019, Vietri sul Mare (Italy)
- Bizzego, A., **Gabrieli, G.**, Bornstein, M. H., Deater-Deckard, K., Putnick, D. L., Lansford, J. E., Bradley, R. H., Costa, M., Esposito, G., (2019). *Adapting the MAQC-DAP to the UNICEF MICS Dataset to Predict Child Mortality in Low- and Middle-Income Countries*, 3rd Annual MAQC Society Conference, 8-10 April 2019, Trento (Italy)
- **Gabrieli, G.** (2019). *Predicting Child Mortality in Low- and Middle-Income Countries: a big data approach*, "3 Minute Thesis" Competition 2019, 29 March 2019, Nanyang Technological University, Singapore (Singapore)
- **Gabrieli G.**, Leck. W., Bizzego A., Esposito G. (2019), *Are Praat's default settings optimal for Infant cry analysis?*, Linux Audio Conference 2019, 23 - 26 March 2019, Stanford (USA) [Conference Paper - PDF]
- Leck W., Azhari, A., Bizzego A., **Gabrieli G.**, Esposito, G. (2019), *Mother-Child Brain Synchrony: A Unique Dyadic Coupling*, International Symposium on Cognition and Neuroscience (ISCN), 8 March 2019, Singapore (Singapore)

## TALKS & POSTERS - CONTINUED

- **Gabrieli G.**, Esposito G., Neuroaesthetic of websites: evaluating the impact of expertise and exposure to website on aesthetic judgment (2018), International Association of Empirical Aesthetics Congress (IAEA), August 30 - September 2 2018, Toronto (Canada.)
- **Gabrieli G.**, Truzzi A., Rigo P., Onnis L., Esposito G. (2018), Promoting empathy with rhymes: effects of poetry exposure on physiological arousal and empathic trait, European Society for Cognitive and Affective Neuroscience (ESCAN), 19-22 July 2018, Leiden (The Netherlands)
- **Gabrieli G.**, Azhari A., Esposito G. (2018), *PySiology: a Python Package for Physiological Feature Extraction*, Italian Workshop on Neural Networks (WIRN), 13-15 June 2018, Vietri sul Mare (Italy.)
- **Gabrieli G.**, Esposito G. (2018), *Neuroaesthetics and web design: how expertise shapes our perception of web pages*, Concepts, Actions, and Objects (CAOS), May 3-5 2018, Rovereto (Italy)
- Venturoso L., **Gabrieli G.**, Truzzi A., Esposito G. (2018), *"Isn't it lovely?": Gender differences in response to babies and adults faces of different ethnic groups*, Concepts, Actions and Objects. Functional and Neural Perspectives (CAOs), May 3-5 2018, Rovereto (Italy)
- **Gabrieli G.** (2018), Vil S., Esposito G, Setoh P., Truzzi A., *Love patterns: a machine learning approach to the study of individuals' perception of romantic interactions in ongoing and past relationships*, Consortium of European Research on Emotion 2018, Glasgow (Scotland)
- **Gabrieli G.** Esposito G., Setoh P., Vil S., Truzzi A. (2018), A machine learning approach to the study of individuals' perception of romantic relationships, Cognitive Science Arena (CSA), February 23-24 2018, Brixen (Italy).
- Ghilardi T., Bonassi A., **Gabrieli G.**, Doi H., Shinohara K., Esposito G. (2018). The influence of ethnicity in the recognition ability of emotional faces and voices. Cognitive Science Arena (CSA), February 23-24 2018, Brixen (Italy)
- **Gabrieli G.**, Scapin G., Panzariello S., Esposito G. (2017), Analysis of available methods for Fundamental Frequency Estimation applied to the Infant Cry, 13th International Infant Cry Workshop, 6-8 July 2017, Rovereto (Italy)
- **Gabrieli G.** (2017), BCI 101 - Introduction to Brain Computer Interfaces, 13<sup>th</sup> Speck and Tech, Trento (Italy)
- **Gabrieli G.**, Lim M., Bolcato C., Truzzi A., Rigo P., Onnis L., Esposito G. (2017). Reading poetry increases adults' empathetic traits and moderated physiological arousal. Social and affective Neuroscience Society (SANS), Annual Meeting 16-18 March 2017, Los Angeles (USA)
- **Gabrieli G.**, Esposito G. (2016). The Dynamics of Love. Nanyang Technological University's Summer Research Internship (Singapore)

## THESIS

- **Gabrieli G.**, Esposito G. (2018), Using users' physiological response to predict aesthetic experience of websites, Master Degree in Human-Computer Interaction, University of Trento (Italy) [PDF@UNITN]
- **Gabrieli G.**, Esposito G. (2016), Development of a Web platform for graphical data collection and analysis, Bachelor Degree in Interfaces and Communication Technology, University of Trento (Italy)

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