

# GIULIO GABRIELI, PH.D.

## Postdoctoral researcher

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## ACADEMIC APPOINTMENTS

### Postdoctoral Researcher

#### Istituto Italiano di Tecnologia

📅 January 2022 – Ongoing 📍 Rome, Italy

Center for Life Nano- & Neuro-Science (CLNS)

### Lecturer

#### Vrije Universiteit Amsterdam

📅 January 2024 – July 2024 📍 Amsterdam, Netherlands

Faculty of Social Sciences, Communication Science

## EDUCATION

### Ph.D. in Psychology

#### Nanyang Technological University

📅 January 2019 – January 2022 📍 Singapore, Singapore

School of Social Sciences (SSS)

CGPA: 4.83 / 5.0

GPA: 3.90 / 4.0

### MSc in Human-Computer Interaction

#### University of Trento

📅 September 2016 - July 2018 📍 Trento, Italy

Department of Psychology and Cognitive Science (DIPSCO)

Department of Information Engineering and Computer Science (DISI)

GPA: 3.64 / 4.0

110/110 with honors

### BSc in Interfaces and Communication Technology

#### University of Trento

📅 September 2013 - September 2016 📍 Trento, Italy

Department of Psychology and Cognitive Science (DIPSCO)

GPA: 3.63 / 4.0

110/110 with honors

### Erasmus+

#### Nagasaki University

📅 October 2016 - March 2017 📍 Nagasaki, Japan

Graduate School of Biomedical Sciences

### Summer Research Internship

#### Nanyang Technological University

📅 June 2016 - July 2016 📍 Singapore, Singapore

## CODING

Python Google Cloud Javascript  
Flutter LaTeX C Java Docker  
SQL HTML CSS Git PHP  
Angular JS Node JS MATLAB R  
JQuery

## PROFILES

Website://[giulio.gabrieli.it](https://giulio.gabrieli.it)

Orcid://[0000-0002-9846-5767](https://orcid.org/0000-0002-9846-5767)

Researchgate://[Giulio\\_Gabrieli](https://www.researchgate.net/profile/Giulio-Gabrieli)

Web of Science://[Giulio Gabrieli](https://www.webofscience.com/author/uri/uri%3Ahttps%3A%2F%2Fgiulio.gabrieli.it)

GitHub://[Gabrock94](https://github.com/Gabrock94)

GitLab://[gack94](https://gitlab.com/gack94)

Unsplash://[@giulio.gabrieli](https://unsplash.com/@giulio.gabrieli)

Untappd://[GiulioGabrieli](https://untappd.com/user/GiulioGabrieli)

## CERTIFICATIONS

Thesis supervision Communication  
Science VJ24

#### Vrije Universiteit Amsterdam

📅 2024

Human Subjects Research - Social &  
Behavioral Research

#### CITI Program

📅 2022

Child First Aid Provider, Standard  
First Aid Provider, BCLS+AED  
Provider

#### Singapore Red Cross Academy

📅 2019-2021

Human Subjects Research - Social &  
Behavioral Research

#### CITI Program

📅 2019

Child & Infant First Aid Provider  
Course

#### Singapore Red Cross Academy

📅 2019-2021

Python 3 - Medium level

#### SkillValue

📅 2018

## High School Diploma in Chemistry with specialization in Food Technology

**I.T.I.S. G. Ferraris**

📅 September 2008 - June 2013

📍 Verona, Italy

## EXPERIENCE

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### Data Entry

**Hellas Verona F.C. s.p.a**

📅 June 2014 - December 2018

📍 Verona, Italy

IT support and digital tickets management.

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### Research assistant

**Affiliative Behaviour and Physiology Lab**

📅 June 2018 - September 2018

📍 University of Trento

Data analysis, manuscript preparation, speaker at scientific meetings.

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### Scientific Meeting Organization

**University of Trento**

📅 June 2017 - August 2017

📍 University of Trento

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

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## TEACHING EXPERIENCE

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### Teaching Assistant

**HP2700: Abnormal Psychology**

📅 2020-2021

📍 Nanyang Technological University, Singapore

### Teaching Assistant

**HP4222-7237: The Neuroscience of Love**

📅 2019-2020

📍 Nanyang Technological University, Singapore

### Teaching Assistant

**HP4021: Laboratory in Human and Animal Neuroscience**

📅 2019-2020

📍 Nanyang Technological University, Singapore

## VOLUNTEER WORK

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### Volunteer

**Linux App Summit 2020, 2021, 2022**

### Ambassador

**GitKraken**

### Translator

**Raspberry Pi Foundation**

### Ambassador

**Researcher App**

## AWARDS

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### Special Mention

**NTU Open Research Awards 2022**

📅 2 November 2022

📍 Singapore, Singapore

### 1st place

**UX Challenge**

📅 1-2 December 2017

📍 Trento, Italy

### Merit Award 2018

**University of Trento**

📅 2018

📍 Trento, Italy

## OTHER POSITIONS

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### Vice-President

**School of Social Sciences' Graduate Student Club, 3th, 4th, and 5th Committee**

📅 2019 - 2022

📍 Singapore, Singapore

### Data Protection Officer

**School of Social Sciences' Graduate Student Club, 4th Committee**

📅 2020 - 2022

📍 Singapore, Singapore

## 2023

- Lee, A., Carollo, A., Stanzione, A. M., Fong, S., **Gabrieli, G.**, & Esposito, G. (2023). Culture and the assumptions about appearance and reality: A scientometric look at a century of research. *Frontiers in Psychology*, 14, 1140298. <https://www.frontiersin.org/articles/10.3389/fpsyg.2023.1140298/>.
- Neoh, M. J. Y., Bizzego, A., Teng, J. H., **Gabrieli, G.**, & Esposito, G. (2023). Neural processing of sexist comments: Associations between perceptions of sexism and prefrontal activity. *Brain Sciences*, 13(4), 529. <https://doi.org/10.3390/brainsci13040529>.
- Hayton, J., Azhari, A., Esposito, G., Iles, R., Chadiarakos, M., **Gabrieli, G.**, Dimitriou, D., & Mangar, S. (2023). Lack of diurnal variation in salivary cortisol is linked to sleep disturbances and heightened anxiety in adolescents with williams syndrome. *Behavioral Sciences*, 13(3), 220. <https://doi.org/10.3390/bs13030220>.
- Bizzego, A., **Gabrieli, G.**, Lim, M., Rothenberg, W. A., Bornstein, M. H., & Esposito, G. (2023). Predictors of early childhood development: A machine learning approach, 210–239. <https://doi.org/10.14324/111.444/ucloe.000051>.

## 2022

- Carollo, A., Bizzego, A., **Gabrieli, G.**, Wong, K. K.-Y., Raine, A., & Esposito, G. (2022). Self-perceived loneliness and depression during the covid-19 pandemic: A two-wave replication study. *UCL Open Environment*. <https://doi.org/10.14324/111.444/ucloe.000051>.
- Bizzego, A., **Gabrieli, G.**, Azhari, A., Lim, M., & Esposito, G. (2022). Dataset of parent-child hyperscanning functional near-infrared spectroscopy recordings. *Scientific Data*, 9(1), 1–8. <https://doi.org/10.1038/s41597-022-01751-2>.
- Bin Eid, W., Lim, M., **Gabrieli, G.**, Kölbel, M., Halstead, E., Esposito, G., & Dimitriou, D. (2022a). Habilitation of sleep problems among mothers and their children with autism spectrum disorder: Insights from multi-level exploratory dyadic analyses. *Frontiers in Rehabilitation Sciences*, 3. <https://doi.org/10.3389/fresc.2022.915060>.
- Bizzego, A., Neoh, M., **Gabrieli, G.**, & Esposito, G. (2022). A machine learning perspective on fnirs signal quality control approaches. *IEEE Transactions on Neural Systems and Rehabilitation Engineering*, 30, 2292–2300. <https://doi.org/10.1109/TNSRE.2022.3198110>.
- Carollo, A., Fong, S., **Gabrieli, G.**, Mulatti, C., & Esposito, G. (2022). To wine or not to wine? a scientometric approach to 65+ years of wine preference and selection studies. *British Food Journal*, (ahead-of-print). <https://doi.org/10.1108/BFJ-01-2022-0011>.
- Carollo, A., Stanzione, A. M., Fong, S., **Gabrieli, G.**, Lee, A., & Esposito, G. (2022). A scientometric approach to study culture and the assumptions about appearance and reality. <https://doi.org/10.31234/osf.io/x9ynh>.
- Bonassi, A., Cataldo, I., **Gabrieli, G.**, Tandiono, M., Foo, J. N., Lepri, B., & Esposito, G. (2022). The interaction between serotonin transporter allelic variation and maternal care modulates instagram sociability in a sample of singaporean users. *International Journal of Environmental Research and Public Health*, 19(9), 5348. <https://doi.org/10.3390/ijerph19095348>.
- Cataldo, I., Lieu, A. A., Carollo, A., Bornstein, M. H., **Gabrieli, G.**, Lee, A., & Esposito, G. (2022). From the cradle to the web: The growth of “sharenting”—a scientometric perspective. *Human Behavior and Emerging Technologies*, 2022. <https://doi.org/10.1155/2022/5607422>.
- Bin Eid, W., Lim, M., **Gabrieli, G.**, Kölbel, M., Halstead, E., Esposito, G., & Dimitriou, D. (2022b). Alterations in cortisol profiles among mothers of children with asd related to poor child sleep quality. *Healthcare*, 10(4), 666. <https://doi.org/10.3390/healthcare10040666>.
- **Gabrieli, G.**, Bornstein, M. H., Setoh, P., & Esposito, G. (2022). Machine learning estimation of users' implicit and explicit aesthetic judgments of web-pages. *Behaviour & Information Technology*, 1–11. <https://doi.org/10.1080/0144929X.2021.2023635>.

## 2021

- Alonso-Campuzano, C., Iandolo, G., Mazzeo, M. C., Sosa González, N., Neoh, M. J. Y., Carollo, A., **Gabrieli, G.**, & Esposito, G. (2021). Children's online collaborative storytelling during 2020 covid-19 home confinement. *European journal of investigation in health, psychology and education*, 11(4), 1619–1634. <https://doi.org/10.3390/ejihpe11040115>.
- Bizzego, A., **Gabrieli, G.**, Neoh, M. J. Y., & Esposito, G. (2021). Improving the efficacy of deep-learning models for heart beat detection on heterogeneous datasets. *Bioengineering*, 8(12), 193. <https://doi.org/10.3390/bioengineering8120193>.

- Carollo, A., Bizzego, A., **Gabrieli, G.**, Wong, K. K.-Y., Raine, A., & Esposito, G. (2021). I'm alone but not lonely. u-shaped pattern of self-perceived loneliness during the covid-19 pandemic in the uk and greece. *Public Health in Practice*, 100219. <https://doi.org/10.1016/j.puhip.2021.100219>.
- **Gabrieli, G.**, & Esposito, G. (2021a). Reduced perceived trustworthiness during face mask wearing. *European Journal of Investigation in Health, Psychology and Education*, 11(4), 1474–1484. <https://doi.org/10.3390/ejihpe11040105>.
- Carollo, A., Bonassi, A., Cataldo, I., **Gabrieli, G.**, Tandiono, M., Foo, J. N., Lepri, B., & Esposito, G. (2021). The relation between oxytocin receptor gene polymorphisms, adult attachment and instagram sociability: An exploratory analysis. *Heliyon*, 7(9), e07894. <https://doi.org/10.1016/j.heliyon.2021.e07894>.
- Navarini, N., Venturoso, L., **Gabrieli, G.**, Truzzi, A., Lim, M., Setoh, P., & Esposito, G. (2021). The influence of baby schema effect and mere exposure effect on implicit and explicit face processing: A follow-up study. *Experimental Psychology (Russia)*, 14(2), 124–140. <https://doi.org/10.17759/exppsy.2021140209>.
- **Gabrieli, G.**, Bizzego, A., Neoh, M. J. Y., & Esposito, G. (2021). Fnirs-qc: Crowd-sourced creation of a dataset and machine learning model for fnirs quality control. *Applied Sciences*, 11(20), 9531. <https://doi.org/10.3390/app11209531>.
- **Gabrieli, G.**, Lim, Y. Y., & Esposito, G. (2021a). Influences of social distancing and attachment styles on the strength of the halo effect. *PloS one*, 16(8), e0256364. <https://doi.org/10.1371/journal.pone.0256364>.
- Carollo, A., Bonassi, A., Lim, M., **Gabrieli, G.**, Setoh, P., Dimitriou, D., Aryadoust, V., & Esposito, G. (2021). Developmental disabilities across the world: A scientometric review from 1936 to 2020. *Research in Developmental Disabilities*, 117, 104031. <https://doi.org/10.1016/j.ridd.2021.104031>.
- **Gabrieli, G.**, Ng, S., & Esposito, G. (2021a). Hacking trust: The presence of faces on automated teller machines (atms) affects trustworthiness. *Behavioral Sciences*, 11(6), 91. <https://doi.org/10.3390/bs110600915>.
- Ng, X., Ng, L. Y., **Gabrieli, G.**, Azhari, A., Neoh, M. J. Y., & Esposito, G. (2021). An fnirs investigation of masculinity, femininity and sex on nonparents' empathic response to infant cries. *Brain Sciences*, 11(5), 635. <https://doi.org/10.3390/brainsci11050635>.
- **Gabrieli, G.**, Low, W. Y. G., Carollo, A., & Esposito, G. (2021). Campaign trail cliché: An analysis of u.s. politicians photo-taking behavior with children. *PsyArXiv*. <https://psyarxiv.com/kg6xw/>.
- 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. <https://www.mdpi.com/2076-328X/11/5/59>.
- Bizzego, A., **Gabrieli, G.**, & Esposito, G. (2021). Deep neural networks and transfer learning on a multivariate physiological signal dataset. *Bioengineering*, 8(3), 35. <https://doi.org/10.3390/bioengineering8030035>.
- **Gabrieli, G.**, Lee, A., Setoh, P., & Esposito, G. (2021). An analysis of the generalizability and stability of the halo effect during the covid-19 pandemic outbreak. *Frontiers in Psychology*. <https://doi.org/10.3389/fpsyg.2021.631871>.
- Bizzego, A., **Gabrieli, G.**, Azhari, A., Setoh, P., & Esposito, G. (2021). Computational methods for the assessment of empathic synchrony. In *Progresses in artificial intelligence and neural systems* (pp. 555–564). Springer.
- Bizzego, A., **Gabrieli, G.**, Bornstein, M. H., Deater-Deckard, K., Lansford, J. E., Bradley, R. H., Costa, M., & Esposito, G. (2021). Predictors of contemporary under-5 child mortality in low- and middle-income countries: A machine learning approach. *International Journal of Environmental Research and Public Health*, 18(3). <https://doi.org/10.3390/ijerph18031315>.

## 2020

- Bonassi, A., Cataldo, I., **Gabrieli, G.**, Foo, J. N., Lepri, B., & Esposito, G. (2020). Oxytocin receptor gene polymorphisms and early parental bonding interact in shaping instagram social behavior. *International Journal of Environmental Research and Public Health*, 17(19), 7232. <https://doi.org/10.3390/ijerph17197232>.
- Bizzego, A., Azhari, A., Campostrini, N., Truzzi, A., Ng, L. Y., **Gabrieli, G.**, Bornstein, M. H., Setoh, P., & Esposito, G. (2020). Strangers, friends, and lovers show different physiological synchrony in different emotional states. *Behavioral Sciences*, 10(1), 11. <https://doi.org/10.3390/bs10010011>.
- **Gabrieli, G.**, Bornstein, M. H., Manian, N., & Esposito, G. (2020). Assessing mothers' post-partum depression from their infants' cry vocalizations. *Behavioral Sciences*, 10(2), 55. <https://doi.org/10.3390/bs10020055>.
- Azhari, A., **Gabrieli, G.**, Bizzego, A., Bornstein, M. H., & Esposito, G. (2020a). Maternal anxious attachment style is associated with reduced mother-child brain-to-brain synchrony. *bioRxiv*. <https://doi.org/10.1101/2020.01.23.917641>.
- Bonassi, A., Cataldo, I., **Gabrieli, G.**, Tandiono, M., Foo, J. N., Lepri, B., & Esposito, G. (2020). The interaction between serotonin transporter allelic variation and maternal care modulates sociability on instagram. *PsyArXiv*. <https://doi.org/10.31234/osf.io/dkvnf>.
- Azhari, A., Lim, M., Bizzego, A., **Gabrieli, G.**, Bornstein, M. H., & Esposito, G. (2020a). Physical presence of spouse enhances brain-to-brain synchrony in co-parenting couples. *Scientific Reports*, 10(1), 1–11. <https://doi.org/10.1038/s41598-020-63596-2>.

- Azhari, A., Wong, A. W. T., Lim, M., Balagtas, J. P. M., **Gabrieli, G.**, Setoh, P., & Esposito, G. (2020). Parents' past bonding experience with their parents interacts with current parenting stress to influence the quality of interaction with their child. *Behavioral Sciences*, 10(7), 114. <https://doi.org/10.3390/bs10070114>.
- Durnford, J. R., Balagtas, J. P. M., Azhari, A., Lim, M., **Gabrieli, G.**, Bizzego, A., & Esposito, G. (2020). Presence of parent, gender and emotional valence influences preschoolers' pfc processing of video stimuli. *Early Child Development and Care*, 1–11. <https://doi.org/10.1080/03004430.2020.1832997>.
- Bizzego, A., Lim, M., Schiavon, G., Setoh, P., **Gabrieli, G.**, Dimitriou, D., & Esposito, G. (2020). Child disability and caregiving in low and middle income countries: Big data approach on open data. *Research in Developmental Disabilities*, 107, 103795. <https://doi.org/10.1016/j.ridd.2020.103795>.
- Bizzego, A., **Gabrieli, G.**, Furlanello, C., & Esposito, G. (2020). Comparison of wearable and clinical devices for acquisition of peripheral nervous system signals. *Sensors*, 20(23), 6778. <https://doi.org/10.3390/s20236778>.
- Carollo, A., Bonassi, A., Cataldo, I., **Gabrieli, G.**, Tandiono, M., Foo, J. N., Lepri, B., & Esposito, G. (2020). The relation between oxytocin receptor gene polymorphisms, adult attachment and instagram sociability: An exploratory analysis. *PsyArXiv*. <https://doi.org/10.31234/osf.io/yc538>.
- Azhari, A., Lim, M., Bizzego, A., **Gabrieli, G.**, Bornstein, M. H., & Esposito, G. (2020b). Physical presence of spouse enhances brain-to-brain synchrony in co-parenting couples. *Scientific Reports (Nature Publisher Group)*, 10(1). <https://doi.org/10.1038/s41598-020-63596-2>.
- **Gabrieli, G.**, Balagtas, J. P. M., Esposito, G., & Setoh, P. (2020). A machine learning approach for the automatic estimation of fixation-time data signals' quality. *Sensors*, 20(23), 6775. <https://doi.org/10.3390/s20236775>.
- Azhari, A., **Gabrieli, G.**, Bizzego, A., Bornstein, M. H., & Esposito, G. (2020b). Probing the association between maternal anxious attachment style and mother-child brain-to-brain coupling during passive co-viewing of visual stimuli. *Attachment & human development*, 1–16. <https://doi.org/10.1080/14616734.2020.1840790>.
- **Gabrieli, G.**, Azhari, A., & Esposito, G. (2020). Pysiology: A python package for physiological feature extraction. In *Neural approaches to dynamics of signal exchanges* (pp. 395–402). Springer.

## 2019

- **Gabrieli, G.**, Leck, W. Q., Bizzego, A., & Esposito, G. (2019a). Are praat's default settings optimal for infant cry analysis? *Proceedings of the Linux Audio Conference*. <https://dr.ntu.edu.sg/bitstream/10356/143586/2/Praat.pdf>.
- Bizzego, A., Battisti, A., **Gabrieli, G.**, Esposito, G., & Furlanello, C. (2019). Pyphysio: A physiological signal processing library for data science approaches in physiology. *SoftwareX*, 10, 100287. <https://doi.org/10.1016/j.softx.2019.100287>.
- Azhari, A., Leck, W., **Gabrieli, G.**, Bizzego, A., Rigo, P., Setoh, P., Bornstein, M., & Esposito, G. (2019). Parenting stress undermines mother-child brain-to-brain synchrony: A hyperscanning study. *Scientific reports*, 9(1), 1–9. <https://doi.org/10.1038/s41598-019-47810-4>.
- **Gabrieli, G.**, Scapin, G., Bornstein, M. H., & Esposito, G. (2019). Are cry studies replicable? an analysis of participants, procedures, and methods adopted and reported in studies of infant cries. *Acoustics*, 1(4), 866–883. <https://doi.org/10.3390/acoustics1040052>.
- Venturoso, L., **Gabrieli, G.**, Truzzi, A., Azhari, A., Setoh, P., Bornstein, M. H., & Esposito, G. (2019). Effects of baby schema and mere exposure on explicit and implicit face processing. *Frontiers in Psychology*, 10, 2649. <https://doi.org/10.3389/fpsyg.2019.02649>.
- **Gabrieli, G.**, Bornstein, M. H., & Esposito, G. (2019). Using users' physiological responses for the estimation of websites' aesthetic judgments. *PsyArXiv*. <https://doi.org/10.31234/osf.io/cwfx5>.

## 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*, 1–11. <https://doi.org/10.1080/03004430.2018.1554653>.

## TALKS AND POSTERS

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## 2025

- **Gabrieli, G.**, Leandri, M., Mouraux, A., & Iannetti, G. (2025). A novel approach to obtain high-resolution images of the electrical activity of the spinal cord. Cosyne 2025, Montreal, Canada.



## 2024

- Rocchi, F., Bufacchi, R., **Gabrieli, G.**, Romanella, S., Rossi, S., & Iannetti, G. (2024). *Brodman area 7 mediates the value dependent modulation of the blink reflex*. Neuroscience 2024, Chicago, United States of America.

## 2023

- **Gabrieli, G.**, Leandri, M., & Iannetti, G. (2023). *A non-invasive technique for recording the electrical activity of the human spinal cord*. 10th Anniversary MindBrainBody Symposium, Berlin, Germany.

## 2022

- **Gabrieli, G.**, Scapin, G., & Esposito, G. (2022). *Pyaesthetic, a python package for empirical aesthetic analysis*. XXVII Conference of the International Association of Empirical Aesthetics, Philadelphia, United States of America.
- **Gabrieli, G.**, Lenoir, C., Bufacchi, R. J., Mouraux, A., & Iannetti, G. (2022). *A non-invasive technique for recording the electrical activity of the human spinal cord*. Federation of European Neuroscience Societies (FENS), Paris, France.

## 2021

- **Gabrieli, G.**, Ng, S., & Esposito, G. (2021b). *Effects of the aesthetic appearance of human faces on the perceived trustworthiness of automated teller machines (atms)*. XXVI Conference of the International Association of Empirical Aesthetics, Virtual.
- **Gabrieli, G.**, & Esposito, G. (2021b). *Age but not gender and ethnicity of presented faces influence the strength of the halo effect (aesthetics x trustworthiness)*. XXVI Conference of the International Association of Empirical Aesthetics, Virtual.
- Esposito, G., **Gabrieli, G.**, Carollo, A., Bizzego, A., & Killam, K. (2021). *Lockdown impacts mental health: Greece and uk*. UCL Global COVID Study summer webinar series, Virtual.
- **Gabrieli, G.**, Lim, Y. Y., & Esposito, G. (2021b). *Effects of social distancing on the strength halo effect: Does attachment style matter?* 5th international conference of the European Society for Cognitive and Affective Neuroscience (ESCAN), Virtual.
- Ng, X., **Gabrieli, G.**, Azhari, A., Neoh, M. J. Y., & Esposito, G. (2021). *Baby don't cry. measuring the empathetic response towards infant cries in a singaporean context*. 5th international conference of the European Society for Cognitive and Affective Neuroscience (ESCAN), Virtual.
- Bizzego, A., Lim, M., Schiavon, G., Setoh, P., **Gabrieli, G.**, Dimitriou, D., & Esposito, G. (2021). *Parenting and child disability in low- and middle-income countries: Data-driven approaches on open big data*. Society for Research in Child Development Biennial Meeting, Virtual.
- **Gabrieli, G.**, Bornstein, M. H., Manian, N., & Esposito, G. (2021). *Using infants' cry vocalizations to assess post-partum depression in their mothers*. Society for Research in Child Development Biennial Meeting, Virtual.
- **Gabrieli, G.** (2021). *Statistical tests, p values, confidence intervals, and power: A guide to misinterpretations*. Singapore ReproducibiliTea, Singapore, Singapore.
- Carollo, A., Bizzego, A., **Gabrieli, G.**, Wong, K. K. Y., Raine, A., & Esposito, G. (2021). *Perceived loneliness and lockdown duration: Using artificial intelligence to uncover patterns in covid-19 data*. President's Forum on Southeast and South Asia and Taiwan Universities, Virtual.
- Carollo, A., Bonassi, A., Cataldo, I., **Gabrieli, G.**, Lepri, B., & Esposito, G. (2021). *The effect of avoidant attachment with the partner on the number of followed users on instagram: A gxe study*. European Conference on Digital Psychology, Milan, Italy.

## 2020

- Carollo, A., Bizzego, A., **Gabrieli, G.**, Wong, K., Raine, A., & Esposito, G. (2020). *I'm alone but not lonely: Investigating the u-shaped pattern of perceived loneliness during the covid-19 pandemic in the united kingdom and greece*. Society of Behavioural Health Virtual Scientific Meeting, Virtual.
- **Gabrieli, G.** (2020). *An analysis of the generalizability and stability of the halo effect*. School of Social Sciences - Graduate Students Club's Brownbag Seminar, Singapore, Singapore.
- Bonassi, A., Cataldo, I., **Gabrieli, G.**, Nee Foo, J., Lepri, B., & Esposito, G. (2020). *Serotonin transporter gene polymorphisms and confidence in adult relationships affect the number of followed people on instagram*. 33rd Congress of the European College of Neuropsychopharmacology, Virtual.

- Caruso, A., **Gabrieli**, G., Fulceri, F., Micai, M., Esposito, G., Network, N., & Scattoni, M. (2020). *Acoustic features of cry from birth as early markers of neurodevelopmental disorders*. Behavioural Measures of Language Acquisition and language processing in typical and atypical populations, Venice, Italy.
- Bonassi, A., Cataldo, I., **Gabrieli**, G., Lepri, B., & Esposito, G. (2020). *Genetic predispositions and early parent-child relationship are related to instagram behaviour*. Cognitive Science Arena (CSA), Brixen, Italy.
- Gobbi, P., Bonassi, A., Cataldo, I., **Gabrieli**, G., Lepri, B., & Esposito, G. (2020). *Exploring sociable attitudes in facebook: A gene-environment investigation*. Cognitive Science Arena (CSA), Brixen, Italy.

## 2019

- Bizzego, A., **Gabrieli**, G., Bornstein, M. H., Deater-Deckard, K., Putnick, D. L., Lansford, J. E., Bradley, R. H., Costa, M., & Esposito, G. (2019a). *Child mortality in low- and middle-income countries: A transdisciplinary study using artificial intelligence*. 3rd International Developmental Pediatrics Association Congress - Transdisciplinary interventions: Idea in Action, Manila, Philippines.
- Bonassi, A., Cataldo, I., **Gabrieli**, G., Lepri, B., & Esposito, G. (2019). *Genetic factors and early parent-infant interactions shape instagram users' social behaviour*. Federation of European Neuroscience Societies (FENS) Hertie Winter School, Obergurgl, Austria.
- Kamburova, H., Kumar, R., Gao, F., & **Gabrieli**, G. (2019). *Open access in the asia-pacific countries: A q&a with academics*. Researcher App Webinar.
- Goh, G., S. N. **Gabrieli**, & Koh, W. (2019). *Open data and materials*. Singapore ReproducibiliTea, Singapore, Singapore.
- **Gabrieli**, G. (2019a). *Reproducibility now: Why many studies are not reproducible?* Singapore ReproducibiliTea, Singapore, Singapore.
- **Gabrieli**, G. (2019b). *Using artificial intelligence to fight child mortality*. Healthcare Tech - La Kopi @ Google Developer Space, Singapore, Singapore.
- Bizzego, A., **Gabrieli**, G., Azhari, A., Setoh, P., & Esposito, G. (2019). *Computational methods for the assessment of empathic synchrony*. Italian Workshop on Neural Networks (WIRN), Vietri sul Mare, Italy.
- Azhari, A., Leck, W. Q., **Gabrieli**, G., Bizzego, A., Rigo, P., Setoh, P., Bornstein, M. H., & Esposito, G. (2019). *Parenting stress undermines mother-child interbrain synchrony*. Social & Affective Neuroscience Society (SANS), Miami, United States of America.
- **Gabrieli**, G. (2019c). *Predicting child mortality in low- and middle-income countries: A big data approach*. "3 Minute Thesis" Competition, Singapore, Singapore.
- **Gabrieli**, G., Leck, W. Q., Bizzego, A., & Esposito, G. (2019b). *Are praat's default settings optimal for infant cry analysis?* Linux Audio Conference, Stanford, United States of America.
- Qing, L. 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), Singapore, Singapore.

## 2018

- **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), Leiden, The Netherlands.
- **Gabrieli**, G., Azhari, A., & Esposito, G. (2018). *Physiology: A python package for physiological feature extraction*. Italian Workshop on Neural Networks (WIRN), Vietri sul Mare, Italy.
- **Gabrieli**, G., & Esposito, G. (2018a). *Neuroaesthetics and web design: How expertise shapes our perception of web pages*. Concepts, Actions and Objects (CAOS), 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 (CAOS), Rovereto, Italy.
- **Gabrieli**, G., Esposito, G., Setoh, P., Vil, S., & Truzzi, A. (2018a). *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, Glasgow, Scotland.
- **Gabrieli**, G., Esposito, G., Setoh, P., Vil, S., & Truzzi, A. (2018b). *A machine learning approach to the study of individuals' perception of romantic relationships*. Cognitive Science Arena (CSA), 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), Brixen, Italy.
- **Gabrieli**, G., & Esposito, G. (2018b). *Neuroaesthetic of websites: Evaluating the impact of expertise and exposure to website on aesthetic judgment*. International Association of Empirical Aesthetics Congress (IAEA), Toronto, Canada.

## 2017

- **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, 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), Los Angeles, United States of America.

## 2016

- **Gabrieli, G.** (2016). *The dynamics of love*, Singapore, Singapore.

## GRANTS

---

- Singapore's National Super Computing Centre January 2020 Cycle, Project: *Computational study of Child Development in Low Resource Contexts* (Project ID: 12001609)

## THESIS

---

- **Gabrieli G., Lee A., Esposito G.** (2022), Is the Halo Effect universal? An investigation of the generalizability and applications of the Halo Effect, Doctoral Degree in Psychology, Nanyang Technological University (Singapore) [[PDF@DR-NTU](#)]
- **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)

To get access to the above works, please [contact me](#).

## SOFTWARE AND TOOLS

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- **Pysiology** - A Python package for physiological's signals processing [[GitHub](#)] [[PyPI](#)] [[Documentation](#)]
- **pyaesthetics** - Images' aesthetic analysis in Python (formerly known as PrettyWebsite) [[GitHub](#)] [[PyPI](#)]
- **FNIRSQC** - fNIRS Quality Control using Deep Learning Platform [[Website](#)]
- **pyEasyTrend** - The simplest way to perform trend analysis in Python [[GitHub](#)] [[PyPI](#)] [[Documentation](#)]
- **Veronanchemia** - A phone app to explore the city of Verona, suitable for individuals with visual and auditory impairments [[Website](#)] [[Play Store](#)] [[App Store](#)]
- **Tourder** - A phone app to discover nearby touristic attractions using a dating-app like interface [[Website](#)] [[Play Store](#)] [[App Store](#)]

## DATASETS

---

### 2021

- **Gabrieli, G., & Esposito, G.** (2021c). *Replication data for: Halo and priming*. DR-NTU (Data). <https://doi.org/10.21979/N9/2AMLSN>.
- **Gabrieli, G., & Esposito, G.** (2021d). *Replication data for: The presence of faces on automated teller machines (atms) affects trustworthiness*. DR-NTU (Data). <https://doi.org/10.21979/N9/WOGMQ6>.

### 2020

- **Gabrieli, G., Esposito, G., Goh, R., & Gualco, C.** (2020). *Influence of gender, ethnicity and age on the strenght of the halo effect (aesthetics x trustworthiness)* (v. 2). DR-NTU (Data). <https://doi.org/10.21979/N9/5IIVOM>.
- **Bizzego, A., Carollo, A., Gabrieli, G., Wong, K. K.-Y., Raine, A., & Esposito, G.** (2020). *I'm alone but not lonely. U-shaped pattern of perceived loneliness during the COVID-19 pandemic in the UK and Greece*. UCL Data Repository. <https://doi.org/10.5522/04/13251893.v1>.
- **Gabrieli, G., & Esposito, G.** (2020). *The Dynamics of Love, 2019*. UNC Dataverse. <https://doi.org/10.15139/S3/SLGEAS>.
- **Gabrieli, G., Zhang, L., & Setoh, P.** (2020). *Related Data for: A Machine Learning Approach For The Automatic Estimation Of Fixation-Time Data Signals' Quality*. DR-NTU (Data). <https://doi.org/10.21979/N9/OFU9ZG>.
- **Gabrieli, G., Bonassi, A., Carollo, A., & Esposito, G.** (2020). *Related Data for: Association between Oxytocin Receptor Gene polymorphisms and number of followed people on Instagram: an exploratory analysis*. DR-NTU (Data). <https://doi.org/10.21979/N9/GUSTLQ>.



- Azhari, A., **Gabrieli**, G., & Esposito, G. (2020). *Parent-Infant Sync: Play and Video*. DR-NTU (Data). <https://doi.org/10.21979/N9/R7D1UP>.
- Esposito, G., **Gabrieli**, G., & Bizzego, A. (2020). *Replication Data for: Strangers, friends, and lovers show specific physiological synchronies in different emotional contexts*, DR-NTU (Data). <https://doi.org/10.21979/N9/O9ADTR>.
- Bonassi, A., **Gabrieli**, G., & Esposito, G. (2020). *Related Data for Serotonin transporter gene polymorphisms and confidence in adult relationships affect the number of followed people on Instagram*. DR-NTU (Data). <https://doi.org/10.21979/N9/Z15IJ0>.
- Azhari, A., **Gabrieli**, G., Setoh, P. P., & Esposito, G. (2020). *Related data for: Parents' past bonding experience with their parents interacts with current parenting stress to influence quality of interaction with their child*. DR-NTU (Data). <https://doi.org/10.21979/N9/IZQPBI>.
- **Gabrieli**, G., Goh, R. Y. L., Carollo, A., & Esposito, G. (2020). *Replication Data for: Politicians and babies (NYT)*. DR-NTU (Data). <https://doi.org/10.21979/N9/VQBCUD>.
- **Gabrieli**, G., Esposito, G., & Bonassi, A. (2020). *Related Data for: The interaction between serotonin transporter allelic variation and maternal care modulates sociability on Instagram*. DR-NTU (Data). <https://doi.org/10.21979/N9/XIVRWS>.

## 2019

- Esposito, G., & **Gabrieli**, G. (2019a). *Related Data for: Machine Learning Estimation of users' Implicit and Explicit Aesthetic Judgments of Web-Pages*. DR-NTU (Data). <https://doi.org/10.21979/N9/YCDXNE>.
- **Gabrieli**, G., & Esposito, G. (2019). *Related Data for: Assessing mothers' post-partum depression from their infants' cry vocalizations*. DR-NTU (Data). <https://doi.org/10.21979/N9/IUOUOB>.
- Bonassi, A., Cataldo, I., **Gabrieli**, G., & Esposito, G. (2019). *Related data for: Oxytocin Receptor Gene polymorphism and early parental bonding interact in shaping Instagram social behaviour*. DR-NTU (Data). <https://doi.org/10.21979/N9/ZEH2XC>.
- Esposito, G., & **Gabrieli**, G. (2019b). *Replication Data for: Are cry studies replicable? An analysis of participants, setups, and methods adopted and reported in cry studies*. DR-NTU (Data). <https://doi.org/10.21979/N9/UDQBKE>.
- **Gabrieli**, G., Esposito, G., & Azhari, A. (2019). *Replication Data for: Cohabitation Enhances Couple's Brain-to-Brain Synchrony to Infant Cry*. DR-NTU (Data). <https://doi.org/10.21979/N9/ETOGH8>.
- Esposito, G., **Gabrieli**, G., & Venturoso, L. (2019). *Related data for: Effects of Baby Schema and Mere Exposure on Explicit and Implicit Face Processing*. DR-NTU (Data). <https://doi.org/10.21979/N9/TGTTTR>.
- Esposito, G., Bonassi, A., & **Gabrieli**, G. (2019). *Replication Data for: The recognition of emotional faces is affected by intensity and ethnicity*. DR-NTU (Data). <https://doi.org/10.21979/N9/GTRLJJ>.
- Esposito, G., **Gabrieli**, G., Azhari, A., & Bizzego, A. (2019). *Replication Data for: Parenting Stress Undermines Mother-Child Brain-to-Brain Synchrony: A Hyperscanning Study*. DR-NTU (Data). <https://doi.org/10.21979/N9/CTROYX>.
- Esposito, G., & **Gabrieli**, G. (2019c). *Replication Data for: PySiology: a Python Package for Physiological Feature Extraction*. DR-NTU (Data). <https://doi.org/10.21979/N9/GZSQ7>.

## PEER REVIEW SUMMARY

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- Research in Developmental Disabilities (26)
- International Journal of Environmental and Public Health (17)
- Frontiers in Psychology (16)
- Behavioral Sciences (7)
- Society for Research in Child Development - 2023 Meeting (6)
- Acta Psychologica (5)
- Brain Sciences (4)
- Children (4)
- Psychological Reports (3)
- Scientific Reports (3)
- Advances in Methods and Practices in Psychological Science (2)
- Behavior Research Methods (2)
- Concurrency and Computation: Practice and Experience (2)
- Frontiers in Public Health (2)
- Infant Behavior and Development (2)
- Journal of Genetic Psychology (2)
- PeerJ (2)

- Communication Psychology (1)
- Computers in Human Behavior (1)
- Frontiers in Neurology (1)
- Frontiers in Sustainable Food System (1)
- Helyion (1)
- Hygiene (1)
- Human Behavior and Emerging Technologies (1)
- Inquiry (1)
- JAMA Network Open (1)
- Journal of Clinical Medicine (1)
- Pediatric Reports (1)
- Psychiatry International (1)
- Quarterly Journal of Experimental Psychology (1)
- Scientific Data (1)
- Smart Innovation, Systems and Technologies (1)
- Sports (1)
- Swiss National Science Foundation (1)

## EDITORIAL SUMMARY

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- Frontiers in Psychology (6)
- Frontiers in Computer Science (2)
- Frontiers in Psychiatry (1)
- Frontiers in Public Health (1)

## PRESS COVERAGE

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- 'Beauty', Drive Time. Voice of Islam Radio (2022, July 28).  
<https://soundcloud.com/voislam/drive-time-show-podcast-28-07-2022-beauty-and-poverty>
- Scientificast, Episode 384 (2021, November 29). <https://www.scientificast.it/psicofisiologia-dei-coralli-del-tempo/>
- Infancy Research Around the World: Singapore. International Congress of Infant Studies (2021, September 30).  
<https://infantstudies.org/infancy-research-around-the-world-singapore/>
- Could oxytocin receptors influence Instagram activity?. Medical News Today (2021, September 23).  
<https://www.medicalnewstoday.com/articles/could-oxytocin-receptors-influence-instagram-activity>
- Variations in 'love hormone' gene might affect how much people post on Instagram, researchers suggest. The independent (2021, September 22).  
<https://www.independent.co.uk/life-style/gadgets-and-tech/instagram-followers-gene-love-hormone-b1924800.html>
- A Possible Connections Between Oxytocin and Instagram. Neuroscience.com (2021, September 22).  
<https://neurosciencenews.com/oxytocin-genetics-instagram-19340/>
- Researchers look for possible connections between oxytocin and Instagram. Eurekalert.org (2021, September 22).  
<https://www.eurekalert.org/news-releases/928645>
- Why Genuine, Lasting Connections Feel So Elusive. Psychology Today (2021, May 4).  
<https://www.psychologytoday.com/za/blog/missing-each-other/202105/why-genuine-lasting-connections-feel-so-elusive>
- Parents' brain activity synchronizes in each other's presence. Medical News Today (202, May 23).  
<https://www.medicalnewstoday.com/articles/parents-brain-activity-synchronizes-in-each-others-presence>
- Parents' brains sync when taking care of children together. The Star (2020, May 22).  
<https://www.thestar.com.my/lifestyle/health/2020/05/22/parents-brains-sync-when-taking-care-of-children-together>
- Here's how co-parenting with one's spouse can alter each other's brain activity, improve relations. Hindustan Times (2020, May 18).  
<https://www.hindustantimes.com/sex-and-relationships/here-s-how-co-parenting-with-one-s-spouse-can-alter-each-other-s-brain-activity-improve-relations/story-CJqIk1U7pXlncWaqL1TZdO.html>
- Parents' brains sync up when caring for children together. Big Think (2020, May 15).  
<https://bigthink.com/neuropsych/parents-brain-changes/>
- Spouses Can Alter Each Other's Brain Activity When Co-Parenting. SciTechDaily (2020, May 13).  
<https://scitechdaily.com/spouses-can-alter-each-others-brain-activity-when-co-parenting/>
- Physical presence of spouses can alter each other's brain activity. News-Medical (2020, May 12).  
<https://www.news-medical.net/news/20200512/Physical-presence-of-spouses-can-alter-each-others-brain-activity.aspx>
- Presence of spouse alters how parents' brains react to children stimuli. Science Daily (2020, May 12).  
<https://www.sciencedaily.com/releases/2020/05/200512100236.htm>
- Physical presence of spouse alters how parents' brains respond to stimuli from children. Medical Xpress (2020, May 12).  
<https://medicalxpress.com/news/2020-05-physical-presence-spouse-parents-brains.html>

- Presence of spouse alters how parents' brains react to children stimuli, finds NTU Singapore study. Eurekalert.org (2020, May 12). <https://www.eurekalert.org/news-releases/868472>
- In Times of Joy and in Times of Sorrow: The Complex Intricacies Behind Co-Parenting and Brain-to-Brain Synchrony. Thrive Global (2020, May 11). <https://thriveglobal.com/stories/in-times-of-joy-and-in-times-of-sorrow-the-complex-intricacies-behind-co-parenting-and-brain-to-brain-synchrony/>
- Stressing About Your Parenting Ability Might Be Counterproductive. Thrive Global (2019, September 12). <https://thriveglobal.com/stories/stressing-about-your-parenting-ability-may-be-counterproductive/>
- Parenting stress weakens mother-child communication. The statesman (2019, August 31). <https://www.thestatesman.com/lifestyle/parenting-stress-weakens-mother-child-communication-1502794316.html>
- Parental stress can affect communication with children. Deccan Chronicle (2019, August 31). <https://www.deccanchronicle.com/lifestyle/sex-and-relationship/310819/parental-stress-can-affect-communication-with-children.html>
- Parental stress can affect communication with children. The Asian Age (2019, August 31). <https://www.asianage.com/life/relationship/310819/parental-stress-can-affect-communication-with-children.html>
- Parenting stress weakens mother-child communication. The Siasat Daily (2019, August 31). <https://www.siasat.com/parenting-stress-weakens-mother-child-communication-1601460/>
- Parenting stress may weaken mother-child communication, study shows. News Medical (2019, August 29). <https://www.news-medical.net/news/20190829/Parenting-stress-may-weaken-mother-child-communication-study-shows.aspx>
- Parenting stress may affect mother and child ability to tune in to each other. Medical Xpress (2019, August 29). [https://medicalxpress.com/news/2019-08-parenting-stress-affect-mother-child.html?src\\_id=alt](https://medicalxpress.com/news/2019-08-parenting-stress-affect-mother-child.html?src_id=alt)
- Parenting stress may affect mother's and child's ability to tune in to each other. Science Daily (2019, August 29). <https://www.sciencedaily.com/releases/2019/08/190829101059.htm>
- Raspberry Pi Want A Cracker? Hackaday (2016, November 14) <https://hackaday.com/2016/10/14/raspberry-pi-want-a-cracker/>
- Make your own Siri or Cortana with Raspberry Pi 3. Open Electronics (2016, November 5). <https://www.open-electronics.org/make-your-own-siri-or-cortana-with-raspberry-pi-3/>

# THESIS SUPERVISION

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- Aytmatova A. (2024), Exploring the Influence of Parasocial Relationships and Brand Affinity on Purchase Intention in the context of Social Media Marketing, Master Degree in Communication Science, Vrije Universiteit (Netherlands)
- Ben Gera I. (2024), Beyond Aesthetics: The Role of Hair Color and Facial Expression in Purchase Intentions, Master Degree in Communication Science, Vrije Universiteit (Netherlands)
- Diaby J. (2024), Differences between child and adult death representation in war News Articles regarding the war between Israel and Palestine, Master Degree in Communication Science, Vrije Universiteit (Netherlands)
- Van der Meulen J. (2024), Social Media Influence on Football Club Brand Perception, Master Degree in Communication Science, Vrije Universiteit (Netherlands)
- Van Wijngaarden R. (2024), Judging Faces: The Influence of the Halo Effect and first impression's coherence on Perceived Dating Success, Master Degree in Communication Science, Vrije Universiteit (Netherlands)
- Veldhuizen M. (2024), Analyzing the Role of Aesthetic Features in Packaging Designs on Consumer Responses: The Case of Specialty Coffee, Master Degree in Communication Science, Vrije Universiteit (Netherlands)

## REFERENCES

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