

ANGELA ANDREELLA

PhD Student - University of Padova

I am a Ph.D. student at the Department of Statistical Sciences of the University of Padova, [Cycle XXXIII](#). I am working with Professor [Livio Finos](#) about statistical methods to analyze neuroscience data, e.g., fMRI data. Mainly, my interest is to connect the psychological and statistical fields improving both areas. For that, I am a member of the [Psicostat](#) group at the University of Padua.

One project is about a spatial regularization of the Procrustes method used in the functional alignment of brain data, i.e., the von Mises-Fisher-Procrustes model. I am collaborating with Professor [James Haxby](#) from the Department of Psychological and Brain Sciences at Dartmouth College and with the [Haxby Lab](#).

Another project is about a permutation-based approach of the [All Resolution Inference](#) method under the supervision of Professor [Jelle Goeman](#) from the Department of Biomedical Data Sciences and Professor [Wouter Weeda](#) from the Department of Psychology at Leiden University.

I am also collaborating with [Paolo Brambilla](#) and [Giuseppe Delvecchio](#) on various psychiatric and psychological projects.

INTERESTS:

- High Dimensional Statistics in Neuroscience, and Medicine in general;
- Multiple Testing and Selective Inference in Psychology, Psychiatry, Neuroscience, and Medicine in general;
- Permutation Tests in Psychology, Psychiatry, Neuroscience, and Medicine in general;
- Procrustes Methods in Neuroscience;
- Multivariate analysis in Psychology, Psychiatry, Neuroscience and Medicine in general



EDUCATION

10/2017
– now

University of Padova
PhD Student

📍 Padua, Italy

Thesis: Multivariate analysis in functional magnetic resonance imaging (fMRI) data

10/2013
–
03/2016

University of Padova
M.S. in Statistical Science - 104

📍 Padua, Italy

Thesis: The Catalan National Movement analyzed by Twitter data.

10/2010
–
04/2013

University of Padova
B.S. in Statistical Science - 110

📍 Padua, Italy

Thesis: Twitter Sentiment Analysis in Monti's 2013 election campaign.



CONTACT INFO

✉ a.andreella8@gmail.com

✉ angela.andreella@phd.unipd.it

🌐 github.com/angeella

🐦 [aangeella](https://twitter.com/aangeella)

🌐 angelaandreella.netlify.com

LANGUAGES

Professional proficiency: Italian
(mother tongue), English, Spanish

Elementary proficiency: French,
Catalan

COMPUTER SKILLS

Statistical Packages: R Software -
SPSS - SAS - STATA

Languages: R - Python - Matlab -
C++ - Markdown - SQL

Other software: LaTeX - Gimp -
FSL - GIT

*This resume was made with the R
package [pagedown](#).*

Last updated on 2020-07-17.



STUDY VISITS

- 04/2019
|
07/2019
- **Visiting PhD Student**
[LUMC](#), Department of Biomedical Data Sciences.
📍 Leiden, Netherlands.
- 01/2019
|
04/2019
- **Visiting PhD Student**
[Dartmouth College](#), Department of Psychological and Brain Sciences.
📍 Hanover, NH, USA.
- 09/2013
|
07/2014
- **Erasmus Program**
[Universitat de Barcelona](#), Department of Mathematics and Statistics.
📍 Barcelona, Spain.



TEACHING EXPERIENCE

- 10/2020
|
09/2020
- **Tutor M-PSI/03**
[Department of Developmental Psychology and Socialization](#),
[University of Padua](#), Italy
📍 Padua, Italy
- 06/2020
- **Master's Lesson about Permutation-based Cluster-Mass in EEG data**
[Department of Statistical Sciences](#), [University of Padua](#), Italy
📍 Padua, Italy



RESEARCH AND INTERNSHIP EXPERIENCE

- 01/2016
|
03/2016
- **Pre-Graduate Internship**
[Stazione Zoologica Anton Dohrn](#)
📍 Naples, Italy
- 06/2014
|
06/2015
- **Pre-Graduate Internship**
[Universitat Politècnica de Catalunya](#)
📍 Barcelona, Spain








WORKING EXPERIENCE

- 09/2015
– now
- **Private Tutor**
[Superprof](#)
📍 Italy
- 06/2016
–
07/2017
- **Data analyst**
[Optima Italia](#)
📍 Naples, Italy
- 05/2016
–
06/2016
- **IT Consultant**
[Atos S.r.l](#)
📍 Rome, Italy
- 06/2013
–
08/2013
- **Interviewer**
[VALMON S.r.l](#) spin-off projects with the [University of Florence](#)
📍 Veneto, Italy
 - conducting interviews in the context of the international European Social Survey (ESS) Round 6 Italy, a survey designed to describe and explain the attitudes, opinions, and behaviors of different European populations



EDUCATIONAL EXPERIENCE

- 2017
|
Present • **Psicostat**
University of Padua  Padua, Italy
- 2019 • **Interactive visualisation with R Shiny**
Leiden University  Leiden, Netherlands.
- 2017 • **Stochastic calculus of variations and normal approximations**
[27th Jyväskylä Summer School](#)  Jyväskylä, Finland
- 2017 • **Value of information analysis in spatial model**
[27th Jyväskylä Summer School](#)  Jyväskylä, Finland
- 2017 • **Online Social Media Analytics**
[27th Jyväskylä Summer School](#)  Jyväskylä, Finland










PUBLICATIONS




- 2020 • **Permutation-based True Discovery Proportions for fMRI Cluster Analysis.**
To be submitted
Andreella, A., Goeman, J., Weeda, W., Hemerik, J., Solari, A., and Finos, L.
- 2020 • **The von Mises-Fisher-Procrustes model in functional Magnetic Resonance Imaging data.**
Submitted
Andreella, A., and Finos, L.
- 2020 • **Improving the Functional Alignment of fMRI Data Using Spatial Brain Information**
To be submitted
Andreella, A., Feilong, M., Halchenko, Y., Haxby, J. V. L., and Finos, L.
- 2020 • **A Statistical Approach to the Alignment of fMRI Data**
Book of short papers - SIS 2020
Andreella, A., Feilong, M., Halchenko, Y., Haxby, J. V. L., and Finos, L.
- 2020 • **The Effect of DHA Supplementation on Cognition in Patients with Bipolar Disorder: An Exploratory Randomized Control Trial.**
Nutrients [doi: 10.3390/nu12030708](https://doi.org/10.3390/nu12030708)
Ciappolino, V. and DelVecchio, G. and Prunas, C. and **Andreella, A.** and Finos, L. and Caletti, E. and Siri, F. and Mazzocchi, A. and Botturi, A. and Turolo, S. and Agostoni, C. and Brambilla, P.

- 2019 ● **Altered syntactic abilities in rst episode patients: An inner phenomenon characterizing psychosis. European Psychiatry.**
European Psychiatry doi: [10.1016/j.eurpsy.2019.08.001](https://doi.org/10.1016/j.eurpsy.2019.08.001)
Delvecchio, G., Caletti, E., Perlini, C., Siri, F. M., **Andreella, A.**, Finos, F., Bellani, M., Fabbro, F., Lasalvia, A., Bonetto, C., Cristofalo, D., Scocco, P., D'Agostino, A., Torresani, S., Imbesi, M., bellini, F., Veronese, A., Bressi, V., and Brambilla, P.
- 2018 ● **Prosody abilities in a large sample of affective and non-affective first episode psychosis patients.**
Comprehensive Psychiatry doi: [10.1016/j.comppsy.2018.07.004](https://doi.org/10.1016/j.comppsy.2018.07.004)
Caletti, E., Delvecchio, G., **Andreella, A.**, Finos, L., Perlini, C., Tavano, A., Lasalvia, A., Bonetto, C., Cristofalo, D., Lamonaca, D., Ceccato, C., Pileggi, F., FaustoMazzi, F., Santonastaso, P., Ruggeri, M., Bellani, M., and Brambilla, P.

TALKS

- 02/2020 ● **Quot capita, tot sententiae. Don't Forget to Use Anatomical Features into the Alignment of fMRI Data**
[Cognitive Science Arena](#)  Brixen, Italy
- 09/2019 ● **A Statistical approach to the alignment of fMRI data**
[6th European Student Conference on Behaviour & Cognition](#)  Padua, Italy
- 12/2019 ● **First steps with Python**
[Psicostat 3.1](#)  Padua, Italy
- 07/2019 ● **A Statistical approach to the alignment of fMRI data**
[12th IBS - Italian Region conference](#)  Naples, Italy
- 06/2019 ● **How to improve the functional alignment of fMRI data usingspatial brain information?**
HighDim reading club  Leiden, Netherlands
- 04/2019 ● **A Statistical approach to the alignment of fMRI data**
[Psicostat 3.0](#)  Padua, Italy
- 02/2019 ● **A Statistical approach to the alignment of fMRI data**
Haxby Lab  Hanover, New Hampshire, USA

POSTERS

- 06/2020 ● **Improving the Functional Alignment of fMRI Data Using Spatial Brain Information**
Organization for Human Brain Mapping (OHBM)  Virtual conference
- 06/2020 ● **PRDA package: Enhancing Statistical Inference via Prospective and Retrospective Design Analysis**
European R users meeting (eRum)  Virtual conference
- 10/2019 ● **A Statistical approach to the alignment of fMRI data**
Zero Tre, Prospettive e Nuove Ricerche in Psicometria  Padua, Italy



MEMBERSHIPS

- **Member of the Italian Region of the International Biometrical Society**
[Italian Region of the International Biometric Society](#)
- **Member of Organization for Human Brain Mapping (OHBM)**
[Organization for Human Brain Mapping](#)



HONOURS AND AWARDS

- 2012 ● **Scholarship for excellence by the University of Padua**



CERTIFICATION

- 2016 ● **SQL Fundamental Course**
[SoL - Society for Organizational Learning - Italy](#)
- 2015 ● **Security training course**
[University of Padova](#)
- 2013 ● **Certificate of Interviewer**
[VALMON S.r.l](#)



AUTHOR/CONTRIBUTOR OF THE FOLLOWING PACKAGES FOR R/PYTHON

- [ARlpermutation](#)
- [PRDA](#)
- [vMFPmodel](#)
- [ARleeg](#)