

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 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 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
- Multiple Testing in Psychology, Psychiatry and Neuroscience
- Permutation Tests in Psychology, Psychiatry and Neuroscience
- Procrustes Methods in Neuroscience
- Multivariate analysis in Psychology and Psychiatry



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.



STUDY VISITS

04/2019
|
07/2019

Visiting PhD Student
[LUMC](#), Department of Biomedical Data Sciences.

📍 Leiden, Netherlands.



CONTACT INFO

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✉ angela.andreella@phd.unipd.it

🐙 github.com/angeella

🐦 [angeella](#)

🌐 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 2020-03-06.

- 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.



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 Politecnica 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
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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

- 2019 ● **Permutation-based closed testing in fMRI data.**
To be submitted
Andreella, A., Goeman, J., Weeda, W., Hemerik, J., Solari, A., and Finos, L.
- 2019 ● **Modelling the Procrustes Problem inserting Prior Information with an application to fMRI Studies.**
To be submitted
Andreella, A., Feilong, M., Halchenko, Y., Haxby, J. V. L., and Finos, L.
- 2019 ● **How to improve the functional alignment of fMRI data usingspatial brain information?**
To be submitted
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 • **A Statistical approach to the alignment of fMRI data**
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

- 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](#)



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](#)