

# 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 Padua**  
PhD Student

Padua, Italy

Thesis: Multivariate analysis in functional magnetic resonance imaging (fMRI) data
- 10/2013  
–  
03/2016

**University of Padua**  
M.S. in Statistical Science - 104

Padua, Italy

Thesis: The Catalan National Movement analyzed by Twitter data.
- 10/2010  
–  
04/2013

**University of Padua**  
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

- ✉ [a.andreella8@gmail.com](mailto:a.andreella8@gmail.com)
- ✉ [angela.andreella@phd.unipd.it](mailto:angela.andreella@phd.unipd.it)
- 🐙 [github.com/angeella](https://github.com/angeella)
- 🐦 [angeella](#)
- 🌐 [angelaandreella.netlify.com](https://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 2020-02-14.*

- 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



## 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.

- 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](#)

## OTHER EXPERIENCE

06/2016  
–  
07/2017



**Data analyst**  
[Optima Italia](#)

Naples, Italy



HONOURS AND AWARDS

2012



**Scholarship for excellence by the University of Padua**