

# Marco PALMA

## PERSONAL DATA

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PLACE & DATE OF BIRTH: Frosinone, Italy | 30 March 1993  
INSTITUTIONAL EMAIL: [marco.palma@mrc-bsu.cam.ac.uk](mailto:marco.palma@mrc-bsu.cam.ac.uk)  
PERSONAL WEBPAGES: [marcopalma3.github.io/](https://marcopalma3.github.io/)  
[mrc-bsu.cam.ac.uk/people/in-alphabetical-order/n-to-s/marco-palma/](https://mrc-bsu.cam.ac.uk/people/in-alphabetical-order/n-to-s/marco-palma/)

## CURRENT POSITION

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JAN 2022 - Postdoctoral Research Associate - MRC BIOSTATISTICS UNIT  
CURRENT **University of Cambridge**  
*Project:* “Looking beyond the mean: what within-person variability can tell us about dementia, cardiovascular disease and cystic fibrosis” (MR/V020595/1)  
*Project manager:* Dr Jessica BARRETT (MRC Biostatistics Unit).

## EDUCATION

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MAR 2020 Visiting scholar at **North Carolina State University**, Raleigh, NC (US)  
*Supervisor:* Prof. Ana-Maria STAICU.

SEP 2017 - Doctor of Philosophy in Statistics, OXFORD-WARWICK STATISTICS PROGRAMME  
MAY 2022 **University of Warwick**  
1<sup>st</sup> year: University of Oxford (8 taught modules + 2 miniprojects),  
Academy for PhD Training in Statistics (APTS, 8 taught modules)  
2<sup>nd</sup> – 4<sup>th</sup> year: University of Warwick  
*Thesis:* “Functional data analysis approaches for 3-dimensional brain images”  
*Supervisors:* Dr Julia BRETTSCHNEIDER (University of Warwick), Prof Thomas E NICHOLS (Oxford Big Data Institute & Nuffield Department of Population Health, University of Oxford), Dr Shahin TAVAKOLI (University of Geneva)

SEP 2012 - *Licenza* of the COLLEGIO SUPERIORE, centre of excellence at the  
MAY 2018 **Alma Mater Studiorum - University of Bologna** |  
Admitted after a nationwide selection - 3<sup>rd</sup> place on “Humanities, Law and Economics Area” ranking [[collegio.unibo.it/en](https://collegio.unibo.it/en)]

SEP 2015 - Master of Science in STATISTICAL SCIENCES  
JUL 2017 **Alma Mater Studiorum - University of Bologna**  
*Final Grade:* 110/110 with Laude |  
*Thesis:* “Multivariate Functional Principal Component Analysis for Image Data with application to Neuroimaging”  
*Supervisors:* Prof. Dr Sonja GREVEN (Ludwig-Maximilians-Universität, Munich), Prof. Angela MONTANARI (University of Bologna)

FEB 2017 - Research abroad for final thesis at **Ludwig-Maximilians-Universität**, Munich  
JUN 2017 *Supervisor:* Prof. Dr Sonja GREVEN

SEP 2012 - Double Degree in STATISTICAL SCIENCES  
JUL 2015 **Alma Mater Studiorum - University of Bologna & University of Glasgow**  
*Final Grade:* 110/110 with Laude / First Class with Honours |  
*Thesis:* “Bayes looks skywards: entropy and sunspots”  
*Supervisors:* Dr Vincent MACAULAY (University of Glasgow), Prof. Angela MONTANARI (University of Bologna)

## PUBLICATIONS

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- [1] V. Perrone, S. Hengchen, M. Palma, A. Vatri, J. Q. Smith, and B. McGillivray. Lexical semantic change for Ancient Greek and Latin. *Computational approaches to semantic change*, pages 287–310, 2021.
- [2] M. **Palma**, S. Tavakoli, J. Brettschneider, T. E. Nichols, and ADNI. Quantifying uncertainty in brain-predicted age using scalar-on-image quantile regression. *NeuroImage*, 219:116938, 2020.
- [3] L. Bigoni and M. **Palma**. *Vortit Italice*. La lingua italiana della traduzione. Linee guida per la definizione del traduttore dalle lingue classiche (Guidelines for the definition of translation from ancient languages). *Italiano LinguaDue*, 12(2):558–570, 2020. [In Italian].
- [4] V. Perrone, M. **Palma**, S. Hengchen, A. Vatri, J. Q. Smith, and B. McGillivray. GASC: Genre-Aware Semantic Change for Ancient Greek. In *Proceedings of the 1st International Workshop on Computational Approaches to Historical Language Change*, pages 56–66, Florence, Italy, Aug. 2019. Association for Computational Linguistics.
- [5] B. McGillivray, S. Hengchen, V. Lähteenoja, M. **Palma**, and A. Vatri. A computational approach to lexical polysemy in Ancient Greek. *Digital Scholarship in the Humanities: DSH*, 2019.
- [6] B. G. S. Dekel, M. **Palma**, M. C. Sorella, A. Gori, A. Vasarri, and R. M. Melotti. Development and performance of a diagnostic/prognostic scoring system for breakthrough pain. *Journal of pain research*, 10:1327, 2017.

## SOFTWARE

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neurofundata    Functional data analysis tools for neuroimaging data in R.  
In preparation ([github.com/marcopalma3/neurofundata/](https://github.com/marcopalma3/neurofundata/)).

## TALKS AND POSTERS

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### Mixed-effects location-scale models for within-individual variability in cystic fibrosis

MAR 2023	[Talk]	BSU READING GROUP, MRC Biostatistics Unit, Cambridge
NOV 2022	[Talk]	PREM DAY, MRC Biostatistics Unit, Cambridge
AUG 2022	[Poster]	43 <sup>rd</sup> ANNUAL CONFERENCE OF THE INTERNATIONAL SOCIETY FOR CLINICAL BIOSTATISTICS, Newcastle upon Tyne

### Function-on-function regression for large-scale brain imaging data

FEB 2022	[Talk]	BSU READING GROUP, MRC Biostatistics Unit, Cambridge
FEB 2022	[Talk]	NISOX READING GROUP, Big Data Institute, Oxford

### Normative brain mapping of 3-dimensional morphometry imaging data using skewed functional data analysis

MAR 2023	[Talk]	Department of Statistical Sciences, University of Bologna
DEC 2022	[Talk]	15TH INTERNATIONAL CONFERENCE OF THE ERCIM WG ON COMPUTATIONAL AND METHODOLOGICAL STATISTICS, King's College London
DEC 2022	[Talk]	BSU READING GROUP, MRC Biostatistics Unit, Cambridge
JAN 2021	[Talk]	YOUNG RESEARCHERS' MEETING (YRM), University of Warwick

DEC 2020 [Talk] NISOX READING GROUP, Big Data Institute, Oxford

#### Quantifying uncertainty in brain-predicted age using scalar-on-image quantile regression

JUN 2021 [Poster] 5<sup>th</sup> INTERNATIONAL WORKSHOP ON FUNCTIONAL AND OPERATORIAL STATISTICS, Brno (online)  
MAY 2021 [Poster] STATISTICAL METHODS IN IMAGING CONFERENCE, Emory University (online)  
APR 2020 [Talk] FDA LAB, North Carolina State University, Raleigh (online)  
FEB 2020 [Talk] STRUCTURAL IMAGING GROUP, Johns Hopkins University, Baltimore (online)  
FEB 2020 [Talk] SPAAM STUDENT SEMINAR SERIES, University of Warwick  
JAN 2020 [Talk] YOUNG RESEARCHERS' MEETING (YRM), University of Warwick  
NOV 2019 [Talk] NISOX READING GROUP, Big Data Institute, Oxford  
OCT 2019 [Poster] OXWASP DAY, University of Warwick  
OCT 2019 [Poster] OXFORD BIOMEDICAL IMAGING FESTIVAL, Oxford  
JUL 2019 [Poster] 4<sup>th</sup> UK DEMENTIA MRI CONFERENCE, Oxford  
JUN 2019 [Poster] ORGANISATION FOR HUMAN BRAIN MAPPING CONFERENCE, Rome  
MAR 2019 [Poster] WORKSHOP ON MACHINE LEARNING, COMPUTATIONAL STATISTICS AND APPLICATIONS, AMAZON, Berlin  
FEB 2019 [Talk] NISOX READING GROUP, Big Data Institute, Oxford  
DEC 2018 [Poster] MIDLANDS MEDICAL IMAGING NETWORK, University of Birmingham

#### TEACHING AND SUPERVISION ACTIVITIES

##### Lecturer

AY 2019/2020 FLEXIBLE REGRESSION, MULTIVARIATE STATISTICS AND FUNCTIONAL DATA ANALYSIS (1-day lecture, Postgraduate), Big Data Institute, University of Oxford

##### Teaching assistant

AY 2022/2023 ADVANCED BIOSTATISTICS FOR HEALTH DATA SCIENCE (Postgraduate), University of Cambridge  
PRINCIPLES OF BIOSTATISTICS (Postgraduate), University of Cambridge  
AY 2020/2021 STATISTICS AND DATA ANALYSIS (Postgraduate), University of Warwick  
AY 2019/2020 FINANCIAL TIME SERIES (Postgraduate), University of Warwick  
MARKETING AND STRATEGY ANALYTICS (Postgraduate), University of Warwick  
STATISTICS AND DATA ANALYSIS (Postgraduate), University of Warwick  
AY 2018/2019 LINEAR STATISTICAL MODELLING (Undergraduate), University of Warwick  
STATISTICS AND DATA ANALYSIS (Postgraduate), University of Warwick  
AY 2016/2017 PROBABILITY I (Undergraduate), University of Bologna

##### Project supervision

AY 2021/2022 Mingxuan Huang Summer undergraduate internship  
Danyang Yin MPhil project (temporary second supervisor)

## OTHER ACTIVITIES

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### Student representative roles

- AY 2020/2021 STUDENT-STAFF LIAISON COMMITTEE (SSLC), DEPARTMENT OF STATISTICS,  
University of Warwick
- AY 2018/2019 IT COMMITTEE, DEPARTMENT OF STATISTICS,  
University of Warwick
- AY 2017/2018 GRADUATE LIAISON COMMITTEE, DEPARTMENT OF STATISTICS,  
University of Oxford
- AY 2016/2017 MASTER'S DEGREE PROGRAMME BOARD, DEPARTMENT OF STATISTICS,  
Alma Mater Studiorum - University of Bologna

### Other institutional activities

- AY 2022/2023 MEMBER OF SELECTION COMMITTEE FOR INTERNSHIP STUDENTS,  
MRC Biostatistics Unit, University of Cambridge
- AY 2019/2020 ORGANISER OF YOUNG RESEARCHERS' MEETING (YRM) SEMINAR SERIES,  
Department of Statistics, University of Warwick
- AY 2015/2016 ACADEMIC TUTOR FOR INTERNATIONAL TRACK STATS & MATHS,  
Alma Mater Studiorum - University of Bologna

### Public engagement

- AY 2019/2020 Presenter at PINT & PHD,  
University of Warwick  
Finalist at the local edition of 3 MINUTE THESIS (3MT) COMPETITION,  
University of Warwick  
Exhibitor at the SCIENCE GALA - STEM event for schools and general public,  
University of Warwick
- AY 2018/2019 Exhibitor at the SCIENCE GALA - STEM event for schools and general public,  
University of Warwick
- AY 2017/2018 Exhibitor at the OXFORD MATHS FESTIVAL - event for general public,  
University of Oxford

### Reviewing activity

Journal of Statistical Planning and Inference, Statistics in Medicine

## LANGUAGES

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ITALIAN: Native  
ENGLISH: Fluent  
FRENCH: Basic Knowledge  
GERMAN: Basic Knowledge

## COMPUTER SKILLS

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Basic Knowledge: HTML, Access, Python  
Advanced Knowledge: bash, Excel, Word, PowerPoint,  $\LaTeX$   
Statistical softwares: R, Stata, SAS, WinBugs, Gretl.

## SCHOLARSHIPS AND AWARDS

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- JUL 2019 Giving to Warwick Prize  
Prize for an outstanding contribution to the Statistics  
Department's teaching programme for the AY 2018/2019
- JUN 2018 Prize in recognition of contribution to Outreach in Mathematics and Statistics  
Department of Statistics, University of Oxford, AY 2017/2018
- MAY 2018 Rotary Prize "Guido Paolucci"  
Best curriculum among the graduates of the School of Economics,  
Management and Statistics (UNIBO) for the AY 2016/2017
- Nov 2016 Study grant for final dissertation - research abroad  
Alma Mater Studiorum - University of Bologna  
School of Economics, Management and Statistics
- JAN 2016 GradStat Membership of Royal Statistical Society - Prize winner
- JUN 2015 Shell Prize 2015 - Best overall 4th year student in Statistics  
University of Glasgow, School of Mathematics & Statistics
- SEP 2014 Erasmus scholarship & study grant for final dissertation - research abroad  
Alma Mater Studiorum - University of Bologna  
School of Economics, Management and Statistics

## WORKSHOPS ATTENDED

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- JUL 2019 DATA RESEARCH CAMP 2019, San Servolo, Venice
- JUN 2016 NOVEL STATISTICAL METHODS FOR NEUROSCIENCE, University of Magdeburg
- SEP 2015 MATHSTATNEURO 2015, University of Nice - Sophia Antipolis