Chiara **Di Gravio**

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Education

Vanderbilt University *Nahville, TN, USA*

PHD BIOSTATISTICS *September 2018 - PRESENT*

The University of British Columbia *Vancouver, BC, Canada*

MSc STATISTICS *September 2013 - August 2015*

- Thesis: *"Instrumental variables selection: a comparison between regularization and post-regularization methods".*
  Advisor: Prof. Gabriela Cohen Freue

Sapienza University of Rome *Rome, Italy*

MSc. ACTUARIAL AND FINANCIAL SCIENCE *January 2010 - March 2013*

- Conferred cum laude.
- Thesis: *"Automobile insurance and direct compensation: Italian and French systems".*
  Advisor: Prof. Paola Verico

Sapienza University of Rome *Rome, Italy*

BSc. STATISTICS, FINANCE AND INSURANCE *October 2006 - October 2009*

- Conferred cum laude.

Experience

MRC Lifecourse Epidemiology Unit, University of Southampton *Southamtpon UK*

STATISTICIAN *September 2015 - July 2018*

- Statistician for the Nutrition, Development and Lifelong Health in Transitioning Populations Programme.
- Performed statistical analyses for multiple studies within the programme. Research includes modelling fetal and childhood growth, and studying associations between early life characteristics and risk of cardio-metabolic disease in later life.
- Member of the Epigenetic Mechanisms linking Pre-conceptional nutrition and Health Assessed in India and Sub-Saharan Africa group (http://www.emphasisstudy.org/).
- Designed and delivered a statistics and SPSS course intended for non-statisticians collaborators in India.

The University of British Columbia, Department of Statistics *Vancouver, BC, Canada*

RESEARCH ASSISTANT *May 2014 - August 2014*

- Research focused on instrumental variables selection and its application to proteomics and compared already existing techniques with new approaches.

The University of British Columbia, Department of Statistics *Vancouver, BC, Canada*

TEACHING ASSISTANT *September 2013 - August 2015*

- Fall 2013 and 2014. STAT300: Intermediate Statistics for Applications (served as Head TA during fall 2014).
- Winter 2014 and 2015, Summer 2015. STAT200: Elementary Statistics for Applications (served as Head TA during summer 2015).
- Summer 2015. STAT241/251: Introductory Probability and Statistics.

Skills

Programming   R, STATA, SPSS, Python, LaTeX

Languages   Italian, English, Spanish (working knowledge)

Publications

- **Di Gravio C**, Krishnaveni GV, Somashekara R, Veena SR, Kumaran K, Murali Krishna, Karat SC, Fall CHD (2018). Comparing BMI with skinfolds to estimate age at adiposity rebound and its associations with later cardio-metabolic risk markers. International Journal of Obesity. *10.1038/s41366-018-0144-8*

- **Di Gravio C**, Lawande A, Potdar RD, Sahariah SA, Gandhi M, Brown N, Chopra H, Sane H, Kehoe SH, Marley-Zagar E, Margetts BM, Jackson AA, Fall CHD (2018). The association of maternal age with fetal growth and newborn measures: the Mumbai Maternal Nutrition Project (MMNP). Reproductive Science. *In press.*

- Vasan S, Osmond C, Canoy D, Christodoulides C, Neville M, **Di Gravio C**, Fall CHD, Karpe F (2018). Comparison of regional fat measurements by dual-energy X-ray absorptiometry and conventional anthropometry and their association with markers of diabetes and cardiovascular disease risk. International Journal of Obesity, 42(4).

- Cortina MB, **Di Gravio C**, Osmond C (2018). El problema de todos los cumpleaños. Laberintos e Infinitos Numero 45.

- Lawande A, **Di Gravio C**, Potdar RD, Sahariah SA, Gandhi M, Chopra H, Sane H, Kehoe SH, Marley-Zagar E, Margetts BM, Jackson AA, Fall CHD (2018). Effect of a micronutrient-rich snack taken pre-conceptionally and throughout pregnancy on ultrasound measures of fetal growth: the Mumbai Maternal Nutrition Project (MMNP). Maternal & Child Nutrition Journal, 14(1).

- Chandak G, Silver M, Saffari A, Lillycrop K, Shrestha S, Sahariah SA, **Di Gravio C**, Goldberg G and the EMPHASIS study group. (2017). Protocol for the EMPHASIS study; epigenetic mechanisms linking maternal pre-conceptional nutrition and children's health in India and Sub-Saharan Africa. BMC Nutrition, 3(81).

- Inskip H, Ntani G, Westbury L, **Di Gravio C**, D'Angelo S, Parsons C, Baird J (2017). Getting started with tables. Archives of Public Health; 75(14).

Presentations

10th World Congress on Development Origins of Health and Disease (DOHaD)
Rotterdam, Netherlands

POSTER PRESENTATION
October 2017

- The association of maternal age with fetal growth and newborn measures: the Mumbai Maternal Nutrition Project (MMNP).

61th Annual Scientific Meeting: Society of Social Medicine
Manchester, UK

POSTER PRESENTATION
September 2017

- Comparing BMI with skinfolds to estimate age at adiposity rebound and associations with later cardio-metabolic risk markers.

Nutrition and Nurture in Infancy and Childhood
Grange-over-Sands, UK

POSTER PRESENTATION
June 2017

- A pre-conceptional micronutrient-rich food-based snack for women in Mumbai slums did not increase ultrasound measures of fetal growth.

20th Annual SNEHA - MRC International Workshop
Pune, India

ORAL PRESENTATION
February 2017

- Comparing BMI with skinfolds to estimate age at adiposity rebound and associations with later cardio-metabolic risk markers.

19th Annual SNEHA - MRC International Workshop
Hyderabad, India

POSTER PRESENTATION
February 2016

- A pre-conceptional micronutrient-rich food-based snack for women in Mumbai slums did not increase ultrasound measures of fetal growth.

UBC Department of Statistics Weekly Seminar
Vancouver, BC, Canada

ORAL PRESENTATION
August 2015

- Instrumental variables selection: a comparison between regularisation and post-regularisation methods.

Research Supervision

2017	**Co-supervisor**, Adam Von Ende (MSc. Statistics with application in medicine), University of Southampton. Project: *The role of the intrauterine environment in the development of childhood obesity: evidence from the Southampton Womens Study*	*Southampton, UK*
2016	**Co-supervisor**, Daniella Gossage (MSc. Statistics with application in medicine), University of Southampton. Project: *Does undernutrition lead to variability in menstrual cycle length?*	*Southampton, UK*
2014	**Mentor**, Mentored and supervised a group of UBC undergraduate students, peer-reviewed their statistical analyses and report. Project: *The role of DNA structure in ageing of cells.*	*Vancouver, Canada*

Honors & Awards

2016	**Best Poster Awards**, 19th Annual SNEHA - MRC International Workshop	*Pune, India*
2013	**UBC Department of Statistics Graduate Entrance Scholarship**, University of British Columbia	*Vancouver, Canada*
2013-2014	**Faculty of Graduate Studies, UBC International Partial Tuition Scholarship**, University of British Columbia	*Vancouver, Canada*
2011	**Allison Rose Fellowship**, Drexel University: English Language Center (ELC). Allison Rose Fellows are student leaders who assist new students at orientation, lead the weekly activities program, and help teachers and staff at the ELC.	*Philadelphia, USA*
2009	**Student Collaboration Scholarship**, Sapienza University of Rome. Involved in the update of the department website, and the organisation of the departmental library.	*Rome, Italy*

Other Professional Activities

Referee

May 2016 - PRESENT

- BMJ Open, Pediatrics, Obesity, International Journal of Epidemiology

MRC Lifecourse Epidemiology Unit - University of Southampton *Southampton UK*

July 2016 - July 2018

- Organised and led R training for members of the MRC Lifecourse Epidemiology Unit.
- Programme representative to liaise with the MRC Lifecourse Epidemiology Unit publications database team.

Coursera

September 2015 - PRESENT

- Member of the Global Translator Community.
- Specialisation completed: University of Michigan - Python for everybody, John Hopkins University - Data science, University of Washington - Machine learning, University of Michigan - Applied data science with Python.

University of British Columbia *Vancouver, BC, Canada*

January 2014 - August 2015

- Organised the SFU/UBC Statistics Joint Seminar, a biannual seminar intended to give UBC and SFU graduate students a chance to raise awareness about areas of research in statistics, network with other students and faculty members, and share their research.
- Short term consulting projects: *Impacts of the Canadian Stem Cell Network on Career Trajectories.Evaluation of Deficit Irrigation Strategies to Accelerate Fruit Ripening in Grapevine Berries. Pediatric Hospital Dental Emergency Cases: A Quantitative and Qualitative Analysis*.

St. John's College *Vancouver, BC, Canada*

October 2013 - December 2013

- Organised weekly classes and taught Italian to beginners.

www.FIRSTonline.info *Rome, Italy*

Journalist *May 2013 - August 2013*
- Wrote op-eds and short articles in an online newspaper (www.FIRSTonline.info).