

# VALERIO CAPRARO

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## ACADEMIC POSITIONS

- 2016 — present. Middlesex University London. Senior Lecturer in Economics.
- 2014 — 2016. Center for Mathematics and Computer Science (CWI), Amsterdam, The Netherlands. Post-Doc under the supervision of Prof. Krzysztof Apt.
- 2012 — 2014. University of Southampton, United Kingdom. Post-Doc under the supervision of Prof. Graham Niblo.
- 2011 — 2012. University of Neuchâtel, Switzerland. Post-Doc under the supervision of Prof. Alain Valette.

## EDUCATION

- 2009 — 2011: University of Rome ‘Tor Vergata’. Ph.D. in Mathematics (Supervisor: Prof. Florin Rădulescu). Thesis (In english): Peculiar properties of subfactors of ultrapowers of the hyperfinite  $II_1$ -factor.
- 2007 — 2008: University of Rome ‘La Sapienza’. Master’s degree in Mathematics. Grade: 110/110 cum laude. Thesis (in Italian): Teoria della decomposizione centrale per  $C^*$ -algebre separabili. (Supervisor: Prof. Sergio Doplicher)
- 2004 — 2006: University of Rome ‘La Sapienza’. Bachelor’s degree in Mathematics. Grade: 110/110 cum laude. Thesis (in Italian): Campi riducibili e loro ampliamenti. (Supervisor: Prof. Andrea Maffei)

## VOLUNTEERING ACTIVITIES

- I am the President of La Via del Sale ONLUS, an Italian NGO that raised about 500.000 euro in donations to help victims of the 2016 Central Italy earthquake. So far we have delivered 31 mobile houses to families that have lost their house and that, additionally, are especially vulnerable (disables, elders, children), and we have built a permanent house to a 15 year-old girl affected by DiGeorge syndrome. In total, we have helped more than 110 people, including 22 disables and 20 children. Our projects have received widespread media attention (e.g., <http://www.rai.it/dl/RaiTV/programmi/media/ContentItem-55c6d8e5-b447-40fd-b94d-45b93efc8cd2.html>).

More information about our activities at: [www.laviadelsaleonlus.it](http://www.laviadelsaleonlus.it).

## RESEARCH INTERESTS

- Experimental Economics (moral behavior; policy instruments)
- Experimental Psychology (moral dilemmas; dual process models)
- Game Theory and Theoretical Economics (alternative solution concepts; economic models to explain human prosociality)

## PUBLICATIONS

36. Capraro V, Perc M (2018) Grand challenges in Social Physics: In pursuit of moral behavior. *Frontiers in Physics*.
35. Capraro V (2018) Gender differences in lying in sender-receiver games: A meta-analysis. *Judgment and Decision Making* **13**, 345-355.
34. Tappin BM, Capraro V (2018) Doing good vs. avoiding bad in prosocial choice: A refined test and extension of the morality preference hypothesis. *Journal of Experimental Social Psychology* **79**, 64-70.
33. Brañas-Garza P, Capraro V, Rascón-Ramírez E (2018) Gender differences in altruism on Mechanical Turk: Expectations and actual behaviour. *Economics Letters* **170**, 19-23.
32. Capraro V, Rand DG (2018) Do the right thing: Experimental evidence that moral preferences, rather than social preferences per se, drive human prosociality. *Judgment and Decision Making* **13**, 99-111.
31. Vilone D, Capraro V, Ramasco JJ (2018) Hierarchical invasion of cooperation in complex networks. *Journal of Physics Communications* **2**, 025019.
30. Capraro V (2017) Does the truth come naturally? Time pressure increases honesty in deception games. *Economics Letters* **158**, 54-57.
29. Capraro V, Sippel J (2017) Gender differences in moral judgment and the evaluation of gender-specified moral agents. *Cognitive Processing* **4**, 399-405.

28. d'Adda G, Capraro V, Tavoni M (2017) Push, don't nudge: Behavioral spillovers and policy instruments. *Economics Letters* **154**, 92-95.
27. Capraro V, Corgnet B, Espín AM, Hernán-González R (2017) Deliberation favours social efficiency by making people disregard their relative shares: Evidence from USA and India. *Royal Society Open Science* **4**, 160605.
26. Capraro V, Giardini F, Vilone D, Paolucci M (2016) Partner selection supported by opaque reputation promotes cooperative behavior. *Judgment and Decision Making* **11**, 589-600.
25. Capraro V, Kuilder J (2016) To know or not to know? Looking at payoffs signals selfish behavior, but it does not actually mean so. *Journal of Experimental and Behavioral Economics* **65**, 79-84.
24. Capraro V, Cococcioni G (2016) Rethinking spontaneous giving: Extreme time pressure and ego-depletion favor self-regarding reactions. *Scientific Reports* **6**, 27219.
23. Rand DG, Brescoll VL, Everett JAC, Capraro V, Barcelo H (2016) Social heuristics and social roles: Intuition favors altruism for women but not for men. *Journal of Experimental Psychology: General* **145**, 389-396.
22. Biziou-van-Pol L, Haenen J, Novaro A, Occhipinti-Lieberman A, Capraro V (2015) Does telling white lies signal pro-social preferences? *Judgment and Decision Making* **10**, 538-548.
21. Capraro V, Cococcioni G (2015) Social setting, intuition, and experience in laboratory experiments interact to shape cooperative decision-making. *Proceedings of the Royal Society B: Biological Sciences* **282**, 20150237.
20. Capraro V, Barcelo H (2015) Group size effect on cooperation in one-shot social dilemmas II. Curvilinear effect. *PLoS ONE* **10**, e0131419.
19. Capraro V, Halpern JY (2015) Translucent Players: Explaining Cooperative Behavior in Social Dilemmas. In: *Proceedings of the 15th conference in Theoretical Aspects of Rationality and Knowledge*.
18. Capraro V (2015) The emergence of hyper-altruistic behaviour in conflictual situation. *Scientific Reports* **4**, 9916.
17. Capraro V, Lupini M (2015) *Introduction to Sofic and Hyperlinear groups and Connes' embedding conjecture*. Lecture Notes in Mathematics **2136**.
16. Barcelo H, Capraro V (2015) Group size effect on cooperation in one-shot social dilemmas. *Scientific Reports* **5**, 7937.
15. Capraro V, Marcelletti A (2014) Do good actions inspire good actions in others? *Scientific Reports* **7**, 7470.
14. Capraro V, Smyth C, Mylona K, Niblo GA (2014) Benevolent characteristics promote cooperative behaviour among humans. *PLoS ONE* **9**, e102881.
13. Capraro V, Jordan JJ, Rand DG (2014) Heuristics guide the implementation of social preferences in one-shot Prisoner's Dilemma experiments. *Scientific Reports* **4**, 6790.

12. Barcelo H, Capraro V, White JA (2014) Discrete homology theory for metric spaces. *Bulletin of the London Mathematical Society* **46**, 889-905.
11. Capraro V, Venanzi M, Polukarov M, Jennings NR (2013) Cooperative equilibria in iterated social dilemmas. *In: Proceedings of the 6th International Symposium on Algorithmic Game Theory*, Lecture Notes in Computer Science **8146**, pp. 146-158.
10. Capraro V (2013) A Model of Human Cooperation in Social Dilemmas. *PLoS ONE* **8**, e72427.
9. Capraro V, Scarsini M (2013) Existence of equilibria in countable games: an algebraic approach. *Games and Economic Behavior* **79**, 163-180.
8. Brown NP, Capraro V (2013) Groups associated to  $II_1$ -factors. *Journal of Functional Analysis* **264**, 493-507.
7. Capraro V (2013) A notion of continuity in discrete spaces and applications. *Applied General Topology* **14**, 61-72
6. Capraro V (2013) Amenability, locally finite spaces, and bi-lipschitz embeddings. *Expositiones Mathematicae* **31**, 334-349.
5. Capraro V, Morrison K (2013) Existence of optimal strategies for a game on amenable semi-groups. *International Journal of Game Theory* **42**, 917-929.
4. Capraro V, Fritz T (2013) On the axiomatization of convex subsets of a Banach space. *Proceedings of the American Mathematical Society* **141**, 2127-2135.
3. Capraro V, Rădulescu F (2013) Cyclic Hilbert spaces and Connes' embedding problem. *Complex Analysis and Operator Theory* **7**, 863-872.
2. Capraro V, Păunescu L (2012) Product between ultrafilters and applications to Connes' embedding problem. *Journal of Operator Theory* **68**, 165-172.
1. Capraro V, Rossi S (2011) Banach spaces which embed into their dual. *Colloquium Mathematicum* **125**, 479-483.

## MEDIA COVERAGE

The Economist, MIT Technology Review, American Psychological Association, The Daily Mail, Phys.org.

- <https://www.economist.com/news/science-and-technology/21702539-new-experiment-suggests-honesty-more-instinctive-response-people-may-be>
- <https://espresso.economist.com/186b690e29892f137b4c34cfa40a3a4d>
- <https://www.technologyreview.com/s/609924/a-field-guide-to-deception/>
- <http://www.apa.org/pubs/highlights/peeps/issue-67.aspx>
- <http://www.dailymail.co.uk/news/article-4764254/Education-teaches-better-liar.html>
- <https://phys.org/news/2015-07-cooperative-behaviour-instinctive.html>

## SUBMITTED AND WORKING PAPERS

1. Capraro V, Jagfeld G, Klein R, Mul M, Van de Pol I. What's the right thing to do? Increasing prosociality with simple moral nudges.
2. Barcelo H, Capraro V. The Good, the Bad, and the Angry: An experimental study on the heterogeneity in people's (dis)honest behavior.
3. Capraro V. Social versus moral preferences in the Ultimatum game: A theoretical model and an experiment.
4. Capraro V, Vanzo A. Understanding moral preferences using sentiment analysis.
5. Capraro V, Sippel J, Zhao B, Hornischer L, Savary M, Terzopoulou Z, Faucher P, Griffioen SF. Are Kantians better social partners? People making deontological judgments are perceived to be more prosocial than they actually are.

## REVIEWING ACTIVITY

Nature Human Behaviour, Proceedings of the Royal Society B: Biological Sciences, Cognition, Organizational Behavior and Human Decision Processes, Journal of Experimental Social Psychology, Social Cognitive and Affective Neuroscience, Experimental Economics, Journal of Economic Behavior and Organization, Judgment and Decision Making, British Journal of Social Psychology, IEEE Transactions on Automatic Control, Mathematics of Operations Research, British Academy, Netherlands Organisation for Scientific Research (NWO), EuroPhysics Letters, Physics Review A, Theory and Decision, Transactions on Economics and Computation, Journal of Economic Psychology, Nature Scientific Reports, Royal Society Open Science, Frontiers in Behavioral Neuroscience, PLoS ONE, Soft Computing, Bulletin of the London Mathematical Society, American Mathematical Monthly, Bulletin of the Belgian Mathematical Society, Entropy, Journal of Complex Networks, BMC Psychology, Discrete Mathematics and Theoretical Computer Science, Games, Operational Research: An International Journal, Erasmus Journal for Philosophy and Economics.

## EDITORIAL ACTIVITY

PLoS ONE (2018 - present), Frontiers in Physics, Social Physics section (2018 - present).

## RESEARCH TALKS

- Seminar. 6th June 2019, University of Amsterdam, The Netherlands. *TBA*.
- ASSET 2018, November 2018, Florence, Italy. *Understanding moral behavior using sentiment analysis*.
- SABE-IAREP, July 2018, London, United Kingdom. *The Good, the Bad, and the Angry: An experimental study on the heterogeneity in people's (dis)honest behavior*.
- IMEBESS, May 2018, Florence, Italy. *What's the right thing to do? Increasing prosociality using simple moral nudges*.

- IMEBESS, May 2018, Florence, Italy. *The Good, the Bad, and the Angry: An experimental study on the heterogeneity in people's (dis)honest behavior.*
- SPSP 2018 Annual Convention, March 1-3, 2018, Atlanta, USA. *Are Kantians better social partners? People making deontological choices are expected to be more prosocial than they actually are.*
- Departmental Seminar, June 20th, 2017, Madrid, Spain. *Group size effect on cooperation in social dilemmas.*
- 2nd Socrates Workshop on Intuition, Reflection, and Social Preferences, February 19th, 2017, Pisa, Italy. *Deliberation favours social efficiency by making people disregard their relative shares: Evidence from USA and India.*
- Economics of Development and Emerging Markets Seminar Series, June 23rd, 2016, Rotterdam, The Netherlands. *Rethinking spontaneous giving: Evidence for an inverted-U effect of cognitive effort on cooperative behavior.*
- Workshop on Cooperation and Self-Control, June 16th-17th, 2016, King's College, London, United Kingdom. *Rethinking spontaneous giving: Evidence for an inverted-U effect of cognitive effort on cooperative behavior.*
- London Experimental Workshop, June 6th-7th, 2016, Queen Mary University of London, United Kingdom. *Towards Homo Moralis: Non-consequentialist injunctive norms guide pro-social behavior in Dictator and Prisoner's Dilemma games.*
- Young Economists' Meeting, June 2nd-3rd, 2016, Masaryk University, Brno, Czech Republic. *Towards Homo Moralis: Non-consequentialist injunctive norms guide pro-social behavior in Dictator and Prisoner's Dilemma games.*
- International Meeting on Experimental and Behavioral Social Sciences, April 14th-16th, 2016, LUISS University, Rome, Italy. *Rethinking spontaneous giving: Evidence for an inverted-U effect of cognitive effort on cooperative behavior.*
- International Meeting on Experimental and Behavioral Social Sciences, April 14th-16th, 2016, LUISS University, Rome, Italy. *Intuition favors pro-social honesty in deception games.*
- Workshop on Internet Experiments, March 2nd, 2016, Middlesex University, London, United Kingdom. *Partner selection supported by opaque reputation promotes cooperative behavior.*
- Network & Optimization Seminar, February 10th, 2016, CWI, Amsterdam, The Netherlands. *Predicting human behavior: Review of classical literature and new insights.*
- III London Experimental Workshop, November 16th-17th, 2015, Middlesex University, London, United Kingdom. *Does telling white lies signal pro-social preferences?*
- Seminar Social Psychology, November 6th, 2015, Tilburg University, The Netherlands. *Social setting, intuition, and experience in lab experiments interact to shape cooperative decision-making.*

- Workshop on Evolution and Warfare, September 18th, 2015, NIMBioS at the University of Tennessee, Knoxville, USA. *Social setting, intuition, and experience in lab experiments interact to shape cooperative decision-making.*
- June 15th, 2015, CNR, Rome, Italy. *Social setting, intuition, and experience in lab experiments interact to shape cooperative decision-making.*
- Seminar in Economic Theory, Behavioral Economics, and Computation, Feb 12th, 2015, Maastricht University, NL. *Non-consequentialist moral behavior and the assumption of economic theory.*
- Human Cooperation Lab Meeting, Nov. 5th, 2014, Yale University, USA. *Does economic theory need a rethink? Prosocial people violate the consequentialist assumption in one-shot simultaneous-move games.*
- 25th International Conference on Game Theory, July 7th - July 11th, 2014, Stony Brook Center for Game Theory, USA. *Group size effect on cooperation in social dilemmas.*
- Plenary speaker at the 25th International Conference on Operator Theory, June 30th - July 5th, 2014, Institute of Mathematics of the Romanian Academy and the West University of Timisoara, Romania. *Groups associated to  $II_1$ -factors.*
- Pure Mathematics Seminar, May 21st, 2014. Department of Mathematics and Statistics, Lancaster University, Lancaster, United Kingdom. *Groups associated to  $II_1$ -factors.*
- EconCS Seminar, Apr. 1st, 2014, Berkeley, USA. *A model of human cooperation in social dilemmas.*
- Departmental Seminar, Feb. 26th, 2014. Department of Economics and Finance, Luiss University, Rome, Italy. *A Model of Human Cooperation in Social Dilemmas.*
- 6th International Symposium in Algorithmic Game Theory. Oct. 21st-23rd, 2013. Aachen, Germany. *Cooperative equilibria in iterated social dilemmas.*
- “Human Cooperation Laboratory” meeting, Sept. 29th, 2013, Yale University, New Haven, CT, USA. *A Model of Human Cooperation in Social Dilemmas.*
- Game Theory Seminar, Sept. 9th, 2013, Cornell University, Ithaca, NY, USA. *A solution concept for games with altruism and cooperation.*
- European Meeting of the Econometric Society, August 26th-30th, Gothenburg, Sweden. *A solution concept for games with altruism and cooperation.*
- Geometric Group Theory Seminar, July 25th, 2013, Banach Center, Warsaw, Poland. Discrete Algebraic Topology on Metric Spaces.
- SING9 - July 8th-10th, 2013, Vigo, Spain. *A solution concept for games with altruism and cooperation.*
- Economics Seminar, June 7th, 2013, UFSC, Florianopolis, Brazil. A solution concept for games with altruism and cooperation.

- Workshop on Sofic and Hyperlinear groups and Connes' embedding conjecture - June 10th-21st, 2013, UFSC, Florianopolis, Brasil. *Introduction to Sofic and Hyperlinear groups and Connes' embedding conjecture*. Research course with Martino Lupini.
- Pure Maths Lunchtime Seminar - May 13rd, 2013, University of Southampton, UK. *Predicting human behaviour: the cooperative equilibrium theory*.
- Agents Seminar - March 12nd, 2013, University of Southampton, UK. *A solution concept for games with altruism and cooperation*.
- Probabilistic Operator Algebras Seminar - January 23rd, 2013, UC Berkeley, CA, USA. *Groups associated to  $II_1$ -factors*.
- EconCS Seminar - January 22nd, 2013, UC Berkeley, CA, USA. *A solution concept for games with altruism and cooperation*.
- Discrete Mathematics Seminar - January 18th, 2013, UC Davis, CA, USA. *On the coarse fundamental group*.
- Coarse Geometry Seminar - September 21st, 2012, Southampton, United Kingdom. *Some ideas to define a coarse fundamental group*.
- World Congress in Game Theory - July 22nd-27th, 2012, Istanbul, Turkey. *An algebraic approach to countable games*.
- Game Theory Seminar - April 18th, 2012, LUISS, Rome, Italy. *An algebraic approach to countable games*.
- Colloquium (organized by F. Schlenk) - March 13rd, 2012, Neuchatel, Switzerland. *Some interplay between Group Theory and Game Theory*.
- Geometry and Analysis Seminar - Dec. 13, 2011, Wien, Austria. *Topology on locally finite metric spaces and applications*.
- Infinite monster groups - Dec.11st-20th, 2011, Wien, Austria. *A construction of groups preserving hyperlinearity*
- Seminaire de Geometrie Algebrique - Nov. 11st, 2011, Konstanz, Germany. *An introduction to Connes embedding conjecture*
- Seminaire Groupe et Analyse, Neuchatel, Switzerland. *Cyclic Hilbert spaces and Connes' embedding conjecture*
- SING7 - 7th Meeting on Game Theory, TELECOM Paris Tech, Paris, France. *von Neumann rejoins himself: game theory and amenable groups*
- Geometric Group Theory, Bristol, United Kingdom. *A geometric invariant for hyperlinear groups*
- Journées d'Analyse Fonctionnelle, Besançon, France. *A geometric invariant coming from Connes' embedding conjecture*



- Rencontre du GDRE GREFI-GENCO, IHP, Paris, France. *A geometric invariant coming from Connes' embedding conjecture*
- Applied stochastic models and data analysis international conference, June, 2011, La Sapienza, Rome, Italy. *von Neumann rejoins himself: game theory and amenable groups.*
- EU-NGC 4th Annual Meeting, Bucharest, Romania. *A geometric invariant coming from Connes' embedding conjecture*
- LaWiNe seminar, Neuchâtel, Switzerland. *Product of ultrafilters and application to Connes' embedding conjecture*
- *A geometric invariant coming from Connes' embedding conjecture*, Florianopolis, Brazil - cancelled for personal reasons.
- *Product of ultrafilters and application to Connes' Embedding Problem*, University of Gottingen, Germany.
- *Product between ultrafilters and applications to hyperlinear groups*, Sophus Lie Conference Center, Nordfjordeid, Norway.

#### **EVENTS ORGANIZED**

- *SABE-IAREP 2018*, Middlesex University London, UK. July 18-22, 2018.
- (with A. Valette), *Workshop on Connes Embedding Conjecture*, University of Neuchatel, Switzerland. April 23-27, 2012.
- *A day in Geometric Group Theory*, University of Rome, Tor Vergata. March 17th, 2011.

#### **RESEARCH VISITS**

- June 2019, University of Amsterdam, The Netherlands. One week visiting Shaul Shalvi.
- May/June 2018, MSRI, Berkeley, CA, USA. Two weeks visiting Hélène Barcelo.
- May 2018, University of California San Diego, USA. Ten days visiting Uri Gneezy.
- March 2018, Maribor University, Slovenia. One week visiting Matjaz Perc.
- June 2017, Universidad Carlos III de Madrid, Spain. One week visiting Anxo Sánchez.
- May 2017, MSRI, Berkeley, CA, USA. One month visiting Hélène Barcelo.
- March 2015, MSRI, Berkeley, CA, USA. One month visiting Hélène Barcelo.
- November 2014, Yale University, New Haven, Connecticut, USA. Two weeks visiting David G. Rand
- April 2014, MSRI, Berkeley, CA, USA. One month visiting Hélène Barcelo.

- December 2013, Bocconi University, Milan, Italy. One week visiting Massimo Marinacci.
- September 2013, Yale University, New Haven, Connecticut, USA. Ten days visiting David G. Rand.
- September 2013, Cornell University, Ithaca, NY, USA. One week visiting Joe Halpern.
- July 2013, University of Warsaw, Poland. Two weeks visiting Piotr Nowak.
- June 2013, Universidade Federal de Santa Catarina, Florianopolis, Brasil. Three weeks visiting Vladimir Pestov.
- January 2013, MSRI, Berkeley, California, USA. Two weeks visiting H el ene Barcelo.
- January-February 2012, IHP, Paris, France. Two weeks visiting Marco Scarsini.
- July 2010, Penn State University, Pennsylvania, USA. Two weeks visiting Nathaniel P. Brown.

## TEACHING EXPERIENCE

- 2018/2019
  - *Behavioral Economics*, Middlesex University, London, United Kingdom. Lecturer.
  - *Quantitative Techniques II*, Middlesex University, London, United Kingdom. Lecturer.
- 2017/2018
  - *Behavioral Economics*, Middlesex University, London, United Kingdom. Lecturer.
  - *Quantitative Techniques I*, Middlesex University, London, United Kingdom. Lecturer.
  - *Quantitative Techniques II*, Middlesex University, London, United Kingdom. Lecturer.
- 2016/2017
  - *Economic Decisions and Strategies*, Middlesex University, London, United Kingdom. Lecturer.
  - *Behavioral Economics*, Middlesex University, London, United Kingdom. Lecturer.
  - *Quantitative Techniques I*, Middlesex University, London, United Kingdom. Lecturer.
- 2015/2016
  - *Game Theory*, University of Amsterdam, Amsterdam, The Netherlands. Lecturer.
- 2014/2015
  - *Game Theory*, University of Amsterdam, Amsterdam, The Netherlands. Lecturer.
- 2013/2014
  - *Linear Algebra*, University of Southampton, Southampton, United Kingdom. Teaching Assistant.

- 2012/2013
  - *Introduction to Connes' embedding conjecture*, Universidade Federal de Santa Catarina, Florianopolis, Brasil. Main speaker at the Workshop on Sofic and Hyperlinear Groups and the Connes Embedding Conjecture.
  - *Calculus II*, University of Southampton, Southampton, United Kingdom. Teaching Assistant.
  - *Linear Algebra*, University of Southampton, Southampton, United Kingdom. Teaching Assistant.
  - *Calculus I*, University of Southampton, Southampton, United Kingdom. Teaching Assistant.
- 2011/2012
  - *Introduction to  $II_1$ -factors and Connes' embedding conjecture*, University of Neuchâtel, Switzerland. Graduate Course.
  - *Topology on locally finite metric spaces*, University of Neuchâtel, Switzerland. Graduate Course.
- 2010/2011
  - *An introduction to Connes' embedding conjecture*, Penn State University, State College (USA). Graduate Course.
  - *Mathematics for Economics*, LUISS University, Rome, Italy. Teaching Assistant.
  - *Mathematics for Economics*, University of Rome 'Tor Vergata', Italy. Teaching Assistant.
- 2009/2010
  - *Mathematics for Economics*, LUISS University, Rome, Italy. Teaching Assistant.
  - *Mathematics for Economics*, University of Rome 'Tor Vergata', Italy. Teaching Assistant.
  - *An introduction to Connes' embedding conjecture*, University of Rome 'Tor Vergata' (Italy). Graduate Course.
- 2008/2009
  - *Mathematics for Economics*, University of Rome 'Tor Vergata', Italy. Teaching Assistant.