

Dr. Mrs. Mehrnoosh Sadrzadeh
141 d Southwood Lane, London, N6 5TA.
Mobile: 07969127740
Gender: female, Nationality: British
Languages: English, French, Persian

Present Appointment

Senior Lecturer, School of Electronic Engineering and Computer Science, Queen Mary University London

Previous Appointments

- October 2011 to April 2013, **EPSRC Career Acceleration Fellow**, Department of Computer Science, University of Oxford.
- October 2008 to September 2011, **EPSRC Postdoctoral Research Fellow**, Department of Computer Science, University of Oxford.
- January 2008 to September 2008, **Postdoctoral Research Assistant**, Université Paris Diderot, Paris VII, Laboratoire Preuves Programmes et Systèmes (PPS).
- January 2006 to December 2007, **Postdoctoral Research Assistant**, University of Southampton, School of Electronics and Computer Science.

Special Awards, Honours and Distinctions

1. Royal Academy of Engineering Industrial Partnership Fellowship, January 2018 to 2019.
2. Royal Society International Exchange Award, March 2017 to 2019.
3. Wolfson College Research Fellowship, Oxford, January 2008 to 2013.
4. Ontario Graduate Scholarship, Canada, April 2003.
5. University of Ottawa Excellence Scholarship, Canada, April 2003.
6. Special Opportunity Grants for Female Doctoral Students, Canada, October 2001 & 2002.

Qualifications

- **Post Graduate Certificate in Academic Practice (PGCAP)**, Queen Mary University of London, July 2017.
- **Doctor of Philosophy** (with Excellence), Université du Québec À Montréal (UQAM), September 2006, supervisors Prof. M. Marion, Dr. A. Baltag (Computing Laboratory, University of Oxford).
- **M.Sc. in Logic**, Sharif University of Technology, Tehran, Iran. January 2001.
- **B.Sc. in Software Engineering**, Sharif University of Technology, Tehran, Iran, April 1998.

Research Grants

1. **Title:** 'Algorithmic and Logical Aspects when Computing Meanings'.
Source: Air Force Office of Scientific Research (AFOSR) International Collaboration grant. AFOSR Award Number: FA9550-14-1- 0079, QMUL Budget Code: ECSR1BR1
Date and Value: July 2014 to 2017, 1m US Dollars.
PI's: Bob Coecke and Mehrnoosh Sadrzadeh.

2. **Title:** 'Foundational Structures for Compositional Meaning'.
Source: EPSRC Career Acceleration Fellowship.
 EPSRC Reference: EP/J002607/2, QMUL Budget Code:ECSA1N9R
PI: Mehrnoosh Sadrzadeh
Partners: Google Inc., University of Cambridge, Utrecht University.
Date and Value: October 2011 to 2016, 529,968 GBP.
3. **Title:** 'New Foundational Structures for Engineering Verified multi-UAVs'.
Source: EPSRC Standard-Scheme Proposal (industrial sponsor: BAE Systems),
 EPSRC Reference: EP/J012564/1
Date and Value: June 2012 to 2015, 636,718 GBP.
PI: Prof. D Kroening. **Co-PI's:** Dr. M Sadrzadeh, Dr. S Waharte, Professor S Cameron.
4. **Title:** 'Algebraic & Colagebraic Semantics for Knowledge Acquisition'
Source: EPSRC Postdoctoral Research Fellowship
 EPSRC Reference EP/F042728/1
Partners: McGill University, University of Amsterdam.
Date and Value: October 2008 to 2011, 224,958 GBP.
PI: Mehrnoosh Sadrzadeh.

Academic Activities

- **Joint Leader of Computational Linguistics Lab**, Queen Mary University, since April 2014.
- **Fellow of Higher Education Academy**, July 2017.
- **EPSRC ICT Prioritisation Panel:** 9th September 2014.
- **EPSRC, Leverhulme, Royal Society, Royal Academy of Engineering, Canadian, Belgian, and Dutch National Research Science Councils**, peer review, fellowship proposals, standard grants.
- **Industrial Partnership:** 'Vector composition for client request classification', TelRock and Cloth Networks Ltd, June to August 2014.
- **Organising Experience:** 12 Conferences and Workshops, funded by EPSRC, AFOSR, Oxford university, British Logic Colloquium, British Council.
- **Program Committee** of over 12 leading international conferences and workshops, notably
- **Semantic co-chair**, International Annual Conference of Association for Computational Linguistics 2017,
- **Semantic co-chair**, International Conference on Computational Natural Language Learning, 2018,
- **Language-Computation co-chair**, European Summer School in Logic Language Computation 2017,
- **Local Chair**, International Conference in Computational Semantics 2015,
- **Local Chair**, International Workshop in Logic Language Information and Computation 2017,
- **Local Chair**, ACL Special Interest Group on Mathematics of Language 2017,
- **Member of jury**, Federation of Logic Language Computation's Beth Dissertation award, 2015-2017.

Keynote Talks (2015-2017)

Apart from the below, I have given over 60 invited departmental seminars in the UK and internationally and about 20 talks in by invitation only conferences and workshops.

1. International Conference on Logic and Machine Learning in Natural Language, Centre for Linguistics Theory and Studies in Probability (CLASP), University of Gothenburg, Sweden, June 2017.
2. British Colloquium for Theoretical Computer Science, St Andrews, UK, April 26-28, 2017.
3. 21st Conference on Formal Grammar, Free University of Bozen-Bolzano, Italy, 20-21 August, 2016.
4. 11th International Tbilisi Symposium on Language, Logic and Computation (TbiLLC), Tbilisi State University, the Georgian Academy of Sciences, University of Amsterdam, 21-26 September, 2015.

5. British Logic Colloquium 2015, Isaac Newton Institute for Mathematical Sciences, University of Cambridge, 2-4 September, 2015.
6. The First International Conference on Topics in Theoretical Computer Science (TTCS 2015), Institute for Research in Fundamental Sciences (IPM), Tehran, Iran, 26-28 August, 2015.
7. The Legacy of Joachim Lambek (FoLLI affiliated meeting), 15th Congress on Logic, Methodology, and Philosophy of Science (CLMPS), Helsinki. 4 August 2015.
8. 22nd Workshop on Logic, Language, Information and Computation (WoLLIC), Bloomington, Indiana, USA, 20-23 July, 2015.

Edited Volumes

- Logic and Computation Revised Selected Papers of 11th International Tbilisi Symposium on Logic, Language, and Computation, 2015, H. Hansen, S. Murray, M. Sadrzadeh, H. Zeevat, (eds), LNCS series, Springer, 2017.
- Quantum Physics and Linguistics: A Compositional? Diagrammatic Discourse, C. Heunen, M. Sadrzadeh, E. Grefenstette (eds), Oxford University Press. 2013.

Selected Publications

I have more than 100 publications in journals, international conferences, workshops and books, with ~ 1400 citations. [Check my Google Scholar page](#)

1. *J. Hedges and M. Sadrzadeh, 'A Generalised Quantifier Theory of Natural Language in Categorical Compositional Distributional Semantics with Bialgebras', to appear in Mathematical Structures in Computer Science.*
2. *E. Balkir, D. Kartsaklis and M. Sadrzadeh, 'Sentence Entailment in Compositional Distributional Semantics', to appear in Annals of Maths and AI.*
3. *E. Grefenstette and M. Sadrzadeh, 'Concrete Models and Empirical Evaluations for the Categorical Compositional Distributional Model of Meaning', Journal of Computational Linguistics, Vol. 41, pp 71-118, 2015.*
4. *M. Ma, A. Palmigiano and M. Sadrzadeh, 'Algebraic Semantics and Model Completeness for Intuitionistic Public Announcement Logic', Annals of Pure and Applied Logic, Vol. 165, pp 963-995, 2014.*
5. *R. Dyckhoff, M. Sadrzadeh, J. Truffaut, 'Algebra, Proof Theory and Applications for an Intuitionistic Logic of Propositions, Actions and Adjoint Modal Operators', ACM Transactions on Computational Logic, Vol. 14, 2013.*
6. *B. Coecke, E. Grefenstette, M. Sadrzadeh, 'Lambek vs. Lambek: Vector Space Semantics and String Diagrams for Lambek Calculus', Annals of Pure and Applied Logic, Vol. 164, pp 1079-1100, 2013.*
7. *M. Sadrzadeh and R. Dyckhoff, 'Positive Logic with Adjoint Modalities: Proof Theory, Semantics and Reasoning about Information', Review of Symbolic Logic Vol. 3, pp. 351-373, 2010.*
8. *B. Coecke, M. Sadrzadeh, S. Clark, 'Mathematical Foundations for a Distributional Compositional Model of Meaning', Festschrift for J. Lambek, Linguistic Analysis Vol. 36, pp. 345-384, 2010.*
9. *D. Kartsaklis and M. Sadrzadeh, 'Distributional Inclusion Hypothesis for Tensor-based Composition', 26th International Conference on Computational Linguistics, Osaka, Japan, 2016.*
10. *D. Milajevs, D. Kartsaklis, M. Sadrzadeh, M. Purver, 'Evaluating Neural Word Representations in Tensor-Based Compositional Settings', Proceedings of the Conference on Empirical Methods in Natural Language Processing, pp. 708-719, Qatar, 2014.*

11. D. Kartsaklis, N. Kalchbrenner, M. Sadrzadeh, 'Resolving Lexical Ambiguity in Tensor Regression Models of Meaning', In *Proceedings of the 52nd Annual Meeting of the Association for Computational Linguistics*, Baltimore, 2014.
12. D. Kartaklis and M. Sadrzadeh, 'Prior Disambiguation of Word Tensors for Constructing Sentence Vectors', *Conference on Empirical Methods in Natural Language Processing*, Seattle, 2013.

Media Coverage

- NewScientist*. 'Quantum Links Let Computers Understand Language', *New Scientist*
1. **2790**, December 2010 (cover headline), based on interview with B. Coecke and M. Sadrzadeh.
 2. **Quantum Physics** \Rightarrow **Natural Language Processing**: *Giving Mathematical Structure to Language, Inspired Research, Summer 2011, Research News from the Department of Computer Science, University of Oxford*, article by E. Grefenstette and M. Sadrzadeh.
 3. **Our Ambiguous World of Words**, *University of Cambridge Research Horizons*, May 2013, *University of Cambridge, Research Magazine*, article by S. Clark.
 4. **Entanglement in Quantum Phenomena and Natural Language**, *Technology.org*, May 21, 2014.
 5. **Algebra Bridges Syntax and Meaning in Natural Language**, *Technology.org*, July 29, 2014.
 6. **Quantum Mechanical Words and Mathematical Organisms**, *Scientific American Guest Blog*, April 2013, based on the interview with B. Coecke.

Teaching Experience

1. September 2016 to March 2018.
Undergraduate Engineering: Mathematics for EE(I) and (II)
Graduate Big Data Masters: Natural Language Processing
School of Electronic Engineering and Computer Science, Queen Mary University London.
2. January 2013 to 2016. *Undergraduate Computer Science: Computability*
School of Electronic Engineering and Computer Science, Queen Mary University London.
3. January 2009 and 2012. *3rd Year Graduate and Masters, Reasoning about Information Update.*
Department of Computer Science, University of Oxford.
4. December 3-18, 2010, **Logical Computations in Multi-Agent Systems.**
Invited Course in Sino-European Winter School on Logic Language Computation, China.

Supervision and Examination Experience

- In Queen Mary: first supervisor of Phd Students 1- **Gijs Wijnholds** (enrolled in Sept 2016) , 2- **Dimitri Milajevs** (enrolled in Sept 2013). Line manager of RA 3- **Dimitir Kartsaklis** (since Jan 2015) and scientific programmer 4- **Benjamin Blundell** (since October 2016).
- In Oxford: co-supervisor of Phd students 1- **Edward Grefenstette** (Oct 2008-2012), 2- **Dimitri Kartsaklis** (Oct 2011-January 2015).
- External Examiner: 1- **Miroslav Batchkarov**, Department of Informatics, University of Essex, January 2016, 2- **Pere Pardo**, Artificial Intelligence Research Institute of the Spanish National Research Council, Barcelona, November 2013.
- Internal Examiner: 1- **Maximillian Droog-Hayes**, School of Electronic Engineering and Computer Science, Queen Mary University of London, September 2017, 2- **Andrew Lewis-Smith**, School of Electronic Engineering and Computer Science, Queen Mary University of London, November 2017.