DALAL SAAD ALRAJEH

Curriculum Vitae

PERSONAL INFORMATION

Email	dalal.alrajeh@ic.ac.uk
Website	www.doc.ic.ac.uk/~da04/

ACADEMIC EMPLOYMENT

9/2017–*present*	Lecturer (USA equiv. Assistant Professor), Department of Computing, Imperial College London.
09/2013–08/2017	Imperial College Research Fellow, Department of Computing, Imperial College London. Project: Automated Diagnosis and Repair for Declarative Specifications.
02/2010–08/2013	Research Associate, Department of Computing, Imperial College London. Project: ERC *Partial Behaviour Modelling: A Foundation for Incremental and Iterative Model-Based Software Engineering.*
07/2003–08/2004	Teaching Assistant, Information Technology Department, King Saud University.

EDUCATION

2005–2010	PhD in Distributed Software Engineering, Imperial College London. Thesis: *Requirements Elaboration using Model Checking and Inductive Learning.* Supervisors: Dr Alessandra Russo and Dr Sebastian Uchitel.
2004–2005	MSc in Computing (Distinction), Imperial College London. Thesis: *Extracting Requirements from Scenarios using Inductive Logic Programming.*
1998–2003	BSc (Hons.) in Information Technology (First Class), King Saud University.

FELLOWSHIPS AND AWARDS: SELECTION

2018	Elsie Widdowson Fellowship.
2018	Distinguished reviewer award, ICSE.
2013	Imperial College Junior Research Fellowship.

PUBLICATIONS: JOURNALS

[1] **D. Alrajeh**, H. Chockler and J. Halpern. Combining Experts' Causal Judgments. *Artificial Intelligence*, July: 2020.[$]
SJR: Q1.

[2] D. Cavezza, **D. Alrajeh** and A. Gyorgy. A Weakness Measure for GR(1) Formulae. To appear in *Formal Aspects of Computing*, 2020.

[3] H. Borrion, P. Ekblom, **D. Alrajeh**, A.L. Borrion, A. Keane, D.AKoch T. Mitchener-Nissen and S. Toubaline. The Problem with Crime Problem-Solving: Towards a Second Generation POP. *The British Journal of Criminology*, 60(1): 219–240, 2020.

[4] **D. Alrajeh**, J. Kramer, A. Russo and S. Uchitel. Automated Support for Diagnosis and Repair. *Communications of the ACM*, 58(2): 65–72, ACM, 2015.
SJR: Q1.

[5] S. Uchitel, **D. Alrajeh**, S. Ben-David, V. Braberman, M. Chechik, G. De Caso, N. D'Ippolito, D. Fischbein, D. Garbervetsky, J. Kramer, A. Russo and G. Sibay. Supporting Incremental Behaviour Model Elaboration. *Computer Science—Research and Development*, 28(4): 279–293, Springer, 2013.

[6] **D. Alrajeh**, J. Kramer, A. Russo and S. Uchitel. Requirements Elaboration using Model Checking and Inductive Learning. *IEEE Transactions on Software Engineering*, 39(3): 361–383, IEEE Press, 2013.[+]
SJR ranking: Q1.

[7] **D. Alrajeh**, J. Kramer, A. Russo and S. Uchitel. Deriving Non-zeno Behaviour Models from Goal Models using ILP. *Formal Aspects of Computing*: 22(34): 217–241, 2010.

[8] **D. Alrajeh**, O. Ray, A. Russo and S. Uchitel. Using Abduction and Induction for Operational Requirements Elaboration. *Journal of Applied Logic*, 7(3): 275–288, 2009.

───────────── PUBLICATIONS: REFEREED CONFERENCES

[9] **D. Alrajeh**, A. Cailliau. and A. van Lamsweerde. *Adapting Requirements Models to Varying Environments.* Proceedings of the 42nd International Conference on Software Engineering (ICSE20), 2020.[$]
CORE rank: A*.

[10] D. Cavezza, **D. Alrajeh** and A. György. Minimal Assumptions Refinement for Realizable Specifications. Proceedings of the 8th International Conference on Formal Methods in Software Engineering (FORMALISE20), 2020.

[11] P. Gomoluch, **D. Alrajeh** and A. Russo. *Learning Neural Search Policies for Classical Planning.* Proceedings of 30th International Conference on Automated Planning and Scheduling (ICAPS20), 2020.
CORE rank: A*.

[12] P. Gomoluch, **D. Alrajeh** and A. Russo. *Learning Classical Planning Strategies with Policy Gradient.* Proceedings of 29th International Conference on Automated Planning and Scheduling (ICAPS19), 2019.
CORE rank: A*.

[13] D. Cavezza, **D. Alrajeh** and A. Gyorgy. *A Weakness Measure for GR(1) Formulae.* Proceedings of 22nd International Symposium on Formal Methods (FM18), 110–128, Springer, 2018.
CORE rank: A.

[14] L. Pasquale, **D. Alrajeh**, C. Peersman, T.T. Thun, A. Rashid and B. Nuseibeh. *Towards Forensic-Ready Software Systems.* Proceedings of 40th ICSE New Ideas and Emerging Results (ICSE NIER18), 9–12, ACM, 2018.

[15] **D. Alrajeh**, H. Chockler and J. Halpern. *Combining Experts' Causal Judgments.* Proceedings of 32nd Association for the Advancement of Artificial Intelligence Conference on Artificial Intelligence (AAAI18), 6311–6318, AAAI Press, 2018.
Acceptance rate: 25%   CORE rank: A*.

[16] **D. Alrajeh**, L. Pasquale and B. Nuseibeh. *On Evidence Preservation Specifications for Forensic-ready Systems.* Proceedings of 11th European Software Engineering Conference and the ACM SIGSOFT Symposium on the Foundations of Software Engineering (ESEC/FSE17): 559–569, ACM, 2017.
CORE rank: A.

[17] D. Cavezza and **D. Alrajeh**. *Interpolation-Based GR(1) Assumptions Refinement.* Proceedings of 23rd International Conference on Tools and Algorithms for the Construction and Analysis of Systems (TACAS17): 281–297, Springer, 2017.
CORE rank: A.

[18] R. Degiovanni, N. Ricci, **D. Alrajeh**, P.F. Castro and N. Aguirre. *Goal-Conflicts Detection based on Temporal Satisfiability Checking.* Proceedings of 30th International Conference on Automated Software Engineering (ASE16): 507–518, ACM, 2016.
Acceptance rate: 19%   CORE rank: A.

[19] **D. Alrajeh**, A. van Lamsweerde, J. Kramer, A. Russo and S. Uchitel. *Risk-Driven Revision of Requirements Models.* Proceedings of 38th IEEE/ACM International Conference on Software Engineering (ICSE16): 855–865, ACM, 2016.
Acceptance rate: 19%   CORE rank: A*.

[20] **D. Alrajeh** and P. Gill. *A Logic-based Approach to Understanding Lone-actor Terrorism.* Proceedings of the Technical Communications of the 31st International Conference on Logic Programming (ICLP15): 2015.
CORE rank: A.

[21] D. Athakravi, **D. Alrajeh**, A. Russo and K. Broda. *Learning through Constraint-driven Bias.* Proceedings of 24th International Conference on Inductive Logic Programming (ILP14): 16–32, Springer, 2015.
CORE rank: B.

[22] **D. Alrajeh** and R. Craven. *Automated Error-detection and Repair for Compositional Software Specifications.* Proceedings of 12th International Conference on Software Engineering and Formal Methods (SEFM14): 111–127, Springer, 2014.
Acceptance rate: 27%   CORE rank: B.

[23] R. Degiovanni, **D. Alrajeh**, N. Aguirre and S. Uchitel. *Automated Goal Operationalisation Based on Interpolation and SAT Solving.* Proceedings of 36th IEEE/ACM International Conference on Software Engineering (ICSE14): 129–139, IEEE Press, 2014.
Acceptance rate: 20%   CORE rank: A*.

[24] **D. Alrajeh**, R. Miller, A. Russo and S. Uchitel. *Reasoning about Triggered Scenarios in Logic Programming.* Proceedings of the Technical Communications of the International Conference on Logic Programming (ICLP13): TPLP 13(4-5), Cambridge University Press, 2013.

CORE rank: A.

[25] **D. Alrajeh**, A. Russo, J. Lockerbie, N. Maiden, A. Mavin and M. Novak. *Computational Alignment of Goals and Scenarios for Complex Systems.* Proceedings of 35th IEEE/ACM International Conference on Software Engineering, New Ideas and Emerging Results Track (ICSE NIER13): 1249–1252, IEEE press, 2013.
Acceptance rate: 22%   CORE rank: A*.

[26] **D. Alrajeh**, J. Kramer, A. van Lamsweerde, A. Russo and S. Uchitel. *Generating Obstacle Conditions for Requirements Completeness.* Proceedings of 34th IEEE/ACM International Conference on Software Engineering (ICSE12): 705–715, IEEE Press, 2012.[+]
Acceptance rate: 21%   CORE rank: A*
Shortlisted for best paper award.

[27] **D. Alrajeh**, J. Kramer, A. Russo and S. Uchitel. *Learning from Vacuously Satisfiable Scenario-based Specifications.* Proceedings of 15th International Conference on Fundamental Approaches to Software Engineering (FASE12): 377–393, Springer, 2012.
Acceptance rate: 24.6%   CORE rank: B.
Shortlisted for best paper award.

[28] **D. Alrajeh**, A. Russo, S. Uchitel and J. Kramer. *Integrating Model Checking and Inductive Logic Programming.* Proceedings of 21st International Conference on Inductive Logic Programming (ILP11): 45–60, Springer, 2011.
CORE rank: B.

[29] **D. Alrajeh**, J. Kramer, A. Russo and S. Uchitel. *An Inductive Approach for Modal Transition Systems Refinement.* Proceedings of the Technical Communications of the 27th International Conference on Logic Programming (ICLP11): 106–116, Schloss Dagstuhl–Leibniz-Zentrum fuer Informatik, 2011.
CORE rank: A.

[30] **D. Alrajeh**, J. Kramer, A. Russo and S. Uchitel. *Learning Operational Requirements from Goal Models.* Proceedings of 31st IEEE/ACM International Conference on Software Engineering (ICSE09): 265–275, IEEE Computer Society, 2009.
Acceptance rate: 12%   CORE rank: A*.

[31] **D. Alrajeh**, A. Russo and S. Uchitel. *Deriving Non-zeno Behaviour Models from Goal Models using ILP.* Proceedings of 11th International Conference on Fundamental Approaches to Software Engineering (FASE08): 1–15, Springer, 2008.
Acceptance rate: 26%   CORE rank: B.

[32] **D. Alrajeh**, O. Ray, A. Russo and S. Uchitel. *Extracting Requirements from Scenarios with ILP.* Proceedings of 16th International Conference on Inductive Logic Programming (ILP06): 62–77, Springer, 2006.
CORE rank: B.

—————— PUBLICATIONS: REFEREED WORKSHOP

[33] P. Gomoluch, **D. Alrajeh**, A. Russo and A. Bucchiarone. *Towards learning domain-independent planning heuristics.* In Proceedings of 1st International Workshop on Architectures for Generality & Autonomy, co-located with In-

ternational Joint Conference on Artificial Intelligence (IJCAI AGA17).

[34] **D. Alrajeh**, S. Jha and S. Seshia. *A Non-monotonic Theory of Oracle-guided Inductive Synthesis.* Proceedings of the First Workshop on Learning in Verification (ETAPS LiVe17): 2017.

[35] **D. Alrajeh**, O. Ray, A. Russo and S. Uchitel. *Using Abduction and Induction for Operational Requirements Elaboration.* Proceedings of 5th International Workshop on International Workshop on the Integration of Abduction and Induction in AI and Bioinformatics (AIAI07): 1–9, 2007.

[36] **D. Alrajeh**, A. Russo and S. Uchitel. *Inferring Operational Requirements from Goal Models and Scenarios using Inductive Systems.* Proceedings of 5th International Workshop on Scenarios and State Machines (ICSE SCESM06): 29–36, 2006.

─────────── PUBLICATIONS: REFEREED BOOK CHAPTERS

[37] **D. Alrajeh** and A. Russo. Logic-based Machine Learning in Software Engineering. In A. Bennaceur, R. Hähnle and K. Meinke, editors, *Machine Learning for Dynamic Software Analysis: Potentials and Limits*, Springer, 2018.

─────────── PUBLICATIONS: EXTENDED ABSTRACTS

[38] **D. Alrajeh**, A. Russo, S. Uchitel, J. Kramer. *Logic-based learning in software engineering.* Proceedings of the 38th International Conference on Software Engineering Companion Volume (ICSE16): 892–893, ACM, 2016.

[39] **D. Alrajeh** and N. Bouhana. *The Logic of Radicalization: A Guided Approach to Modelling and Analysis.* 71st Annual Meeting of American Society of Criminology (ASC15), Washington DC, 2015.

[40] O. Cocarascu, **D. Alrajeh** and P. Gill. *Identifying Key Factors for Explaining Lone-actor Terrorists Target Choices.* 71st Annual Meeting of American Society of Criminology (ASC15), Washington DC, 2015.

[41] **D. Alrajeh**, P. Gill and D. Athakravi. *Learning Characteristics and Antecedent Behaviours of Lone-actor Terrorists.* International Conference on Inductive Logic Programming (ILP14): 2014.

[42] **D. Alrajeh** and P. Gill. *An Inductive Learning Approach for Understanding Lone-actor Terrorist Target Choice.* 70th Annual Meeting of American Society of Criminology (ASC14), San Francisco, 2014.

─────────── PUBLICATIONS: POSTERS

[43] **D. Alrajeh**, N. Bouhana and R. Morgan. *Causal Inference Framework for Crime Science.* International Crime and Policing Conference, Home Office, London, 2015.

[44] **D. Alrajeh** and P. Gill. *Reasoning about Characteristics and Behaviour of Lone-actor Terrorists: A Logic-based Approach.* The Academic Centres of Excellence in Cyber Security Research (ACE-CSRs) Conference, Birmingham, 2014.

Funding: Awarded

09/2016–09/2020 **The Social Ecology of Radicalization: A Foundation for the Design of CVE Initiatives**. Imperial principal investigator. Minerva Initiative, Department of Defense, USA. ∼£646, 700.

03/2018–09/2019 **Big Data Modelling of CJS Relationships: An AI Based Paradigm**. Imperial principal investigator. Institute for Global Innovation, University of Birmingham, UK. £100, 000.

10/2017–03/2018 **SOARER Self-managing drOne swArms for pREcision agRiculture**. Co-investigator. EPSRC Global Challenge Research Fund Community Building Support. ∼£13, 720.

09/2013–08/2017 **Automated Diagnosis and Repair for Declarative Specifications**. Imperial College Research Fellowship award. £199, 151.

05/2015–28/2016 **Building an Intelligent Crime Linkage System**. Principal investigator. ESRC Impact Acceleration Grant, UK. £6, 187.

12/2012–01/2013 **Reasoning about Boolean Networks using Model Checking**. Joint principal investigator. National Institute of Informatics Travel grant, Japan. £2, 500.

Consultancy

2020 Adviser and programmer, Crime Linkage Software, University of Leicester and West Midland Police, UK.

2019 Adviser, Carbon Capture Costing Technology, Element Energy, UK.

Invited Talks and Briefings: Selection

02/2019 *Learning Requirements Adaptations .*
IFIP 2.9. Working Group—Software Requirements Engineering, Punta Cana, Dominican Republic.

09/2017 *A Non-monotonic Perspective on Oracle-guided Synthesis.*
Dagstuhl Seminar on "Machine Learning and Formal Methods", Schloss Dachstuhl, Germany.

02/2017 *Learning to Adapt: A Contextual Guide to Goal Survivability.*
IFIP 2.9. Working Group—Software Requirements Engineering, StellenBosch, South Africa.

10/2016 *Using Computer Science Techniques to Enhance Practitioner Decision-making.*
British Academy Conference on Using Behavioural Science to Target Prolific Criminals, London, UK.

10/2016 *Integrating Machine Learning and Automation into the Comparative Case Analysis Process.*
British Academy Conference on Using Behavioural Science to Target Prolific Criminals, London, UK.

07/2016 *Verification-driven Learning for Declarative Requirements Specifications.*
University of California Berkeley, Berkeley CA, USA.

05/2016 *Logic-based Learning in Software Engineering*
Technical Briefing at International Conference on Software Engineering, Austin,

Texas, USA.

05/2016   *Designing Behaviourly Forensic-Ready Systems: Current Developments and Directions.*
National Crime Agency, Sunningdale Park, UK.

03/2016   *Repairing Software Requirements Models: A Declarative Learning-based Approach.*
The Laboratory for Foundations of Computer Science Seminar Series, University of Edinburgh, UK.

04/2016   *Verification-driven Learning for Declarative Software Specifications.*
Dagstuhl Seminar on "Machine Learning for Dynamic Software Analysis: Potential and Limits", Schloss Dachstuhl, Germany.

12/2015   *A Logical Approach to Crime Linkage.*
British Psychological Society Seminar Series on Linking Acquisitive Crime, University of Derby, UK.

06/2015   *Improving our Understanding of Terrorists Target Selection.*
Fourth Workshop on Formal Methods And Tools for Security, Microsoft Research, Cambridge, UK.

12/2014   *Horizon scanning: Supporting Analysts through Computational Intelligence.*
Futures Scanning Group, City of London Police HQ, UK.

12/2014   *From Goals to Operational Specifications: Getting it right!*
Best of RESG Research 2014 Workshop, London, UK.

10/2014   *Automated Error-Detection and Repair for Compositional Software Specifications.*
Department of Computer Science, University of Middlesex, London, UK.

03/2014   *Handling Flaws in Declarative Specifications.*
The Irish Software Engineering Research Centre (Lero), Limerick, Ireland.

04/2013   *Automated Analysis and Generation of Hypothesis in Major Crimes.*
Association of Chief Police Officers (ACPO) Working Group, London, UK.

02/2013   *Supporting Crime Analysis and Hypothesis Generation using Machine Intelligence.*
UCL Centre for Security & Crime Science, University College London, UK.

02/2013   *Requirements Elaboration: An Inductive Search Problem.*
25th CREST Open Workshop on Requirements and Test Optimization, London, UK.

12/2012   *Handling Flaws in Declarative Specifications.*
Principles of Informatics Research Division, National Institute of Informatics, Tokyo, Japan.

06/2012   *Automated Approach for Diagnosing and Repairing Software Specifications.*
CREST Centre, University College London, UK.

12/2011   *AIMS: Automated Inference for Major Enquiry Systems.*
National Policing Improvement Agency, London, UK.

09/2011   *Model Checking and Inductive Learning: A Synergistic Partnership.*
ERC Workshop on Software Quality, Venice, Italy.

04/2011   *Requirements Discovery using Machine Learning.*
BCS East Anglia: Where Do Software Requirements Come From? Cambridge,

UK.

Teaching: Lecturing

Spring 2020/21	Introduction to Symbolic AI for MSc in Computing and for second year Computing and Joint Maths and Computing (JMC).
Spring 2020/21	Prolog for second year Computing and JMC.
Autumn 2020/21	Logic for first year Computing.
Spring 2019/20	Introduction to Symbolic AI for MSc in Computing.
Spring 2019/20	Prolog for second year Computing and JMC.
Autumn 2019/20	Logic for first year Computing.
Spring 2018/19	Prolog for second year Computing and JMC.
Spring 2017/18	Prolog for second year Computing and JMC.
Autumn 2014/15	Concurrency for second year Computing and JMC.
Autumn 2013/14	Concurrency for second year Computing and JMC.
Autumn 2012/13	Concurrency for second year Computing and JMC.
Spring 2011/12	Concurrency for second year Computing and JMC.

Supervision: PhD: Current

10/2019–12/2023	Rakhilya Mekhtieva, AI4Health Scholarship, Title: *Towards Explainable Multi-modal Learning.* Internship: Facebook, UK

Supervision: PhD: Submitted

10/2017–09/2020	Davide Cavezza, HiPEDS CDT Scholarship, Title: *Heuristics for the Refinement of Assumptions in Generalized Reactivity Formulae.* Internship: ARM, UK.

Supervision: PhD: Completed

01/2016–1/2020	Pawel Gomoluch, Joint FBK and Departmental Scholarship, Title: *Learning Heuristic Functions and Search Policies for Classical Planning.*

Journal Editorial & Review Board

2019–present	**Review Board**, ACM Transactions on Software Engineering and Methodology (TOSEM).
2017–present	**Review Board**, IEEE TSE.
2014–present	**Deputy Editor-in-Chief**, IET Software.
2014–present	**Review Editorial Board**, Frontiers in Computational Intelligence.

Programme Committee Membership: Selection

2021 ICSE Doctoral Symposium, ESEC/FSE main track, International Requirements Engineering Conference (RE) main track, International Joint Conferences on Artificial Intelligence (IJCAI) main track, FORMALISE.

2020 ICSE main track, ICSE NIER, IJCAI main track, RE main track, ILP.

2019 ICSE main track, IJCAI, ASE Late Breaking Results (LBR Track), IEEE International Conference on Software Analysis, Evolution and Reengineering (SANER) Industry track, FM research track, FM Doctoral Symposium, RE@Next, ILP.

2018 ICSE main track, ICSE NIER track, FORMALISE, RE@Next! track.

2017 ICSE main track, SEFM, RE RE@Next! track, ILP, International Symposium on Software Engineering for Adaptive and Self-Managing System (SEAMS@ICSE), International Workshop on Engineering Collective Adaptive Systems (ECAS@SASO).

2016 ICSE poster track, SEFM, ILP, International Conference on Principles of Knowledge Representation and Reasoning (KR), International Conference on Mobile Multimedia Communications (Mobimedia).

2015 SEFM, International Conference on Formal Aspects of Component Software (FACS), International Workshop on Learning and NonMonotonic Reasoning (LNMR@LPNMR), International Workshop on User-Oriented Logic Programming (IULP@ICLP).

Reviewer: Selection

2020 Machine Learning Journal.

2018 FASE, TOSEM.

2017 IEEE TSE, IET Software Journal.

Workshop, Panel and Seminar Organization

2020 Conference session chair, ICSE 2020 and RE 2020.

2018 Organizer, *PhD Improvization Workshop*, DoC, IC.

2017 Co-organizer, 1st International Workshop on *Software Engineering and Digital Forensics*, Co-located with the 11th joint meeting of the European Software Engineering Conference and the ACM SIGSOFT Symposium on the Foundations of Software Engineering, Paderborn, Germany.

2016 Co-organizer, 1st International Workshop on *Requirements Engineering for Investigating and Countering Crime*, Co-located with the 24th IEEE International Requirements Engineering Conference, Beijing, China.

2015 Organizer, Thematic panel *From Radicalization to Terrorism: The Role of Individuals, Contexts and Causal Mechanisms*, 71st Annual Meeting of ASC.

2014 Organizer, Thematic panel *Linking Data and Theories in Criminology: Inference Problems, Methods and Challenges*, 70th Annual Meeting of ASC.

2014 Co-organizer, Workshop on *Formal Methods for Security and Crime Prevention*, DoC, IC.

2011 Co-organizer and program chair, *1st International Workshop on Machine Learning Technologies in Software Engineering*, co-located with 26th IEEE/ACM International Conference on Automated Software Engineering, Lawrence, Kansas,

USA.

2011 Organizer, British Computing Society (BCS) Requirements Engineering Specialist Group (RESG) Workshop for Early Researchers in Requirements Engineering.

2011–2013 Organizer, Distributed Software Engineering (DSE) seminar series SEMAL, DoC, IC.

2009–2010 Co-organizer, RESG workshop for PhD students.

2008–2011 Organizer, RESG annual group meeting.

2008–2009 Organizer, DSE group seminars for PhD students and RAs.

Professional Services

2020 Review panel, Royal Society's FLAIR Fellowship.

2020 Member, EPSRC's Digital Security by Design (DSbD) Funding Prioritization Panel.

10/2020 Invited expert on BBC One documentary "Front line fight Back".

2019 Judge, Royal College of Sciences Science Challenge.

2019 Member, ACM SIGSOFT Early Career Researcher awards committee.

2018–present Member, World Economic Forum Expert Network.

2017 Expert reviewer, Marie Skłodowska-Curie COFUND Fellowship Committee (ALECS, Lero).

Administrative Services: Selection

2020–2021 Coordinator, Wednesday Lunch Seminars, DoC, IC.

2020 MSc projects moderator and team leader, DoC, IC.

2020 Coordinator, departmental nomination for the President's Awards, "Excellence in Research" category, IC (1/2 awarded).

2019–2020 Member, undergraduate admissions panel, DoC, IC.

2019 Coordinator, departmental nomination for the President's Awards, "Excellence in Research" category, IC (3/6 awarded).

2019 MSc projects moderator, DoC, IC.

2018 Coordinator, NCSC Certification of the MEng Computing (Security and Reliability) Integrated Master's degree accreditation, DoC, IC (1/3 awarded).

2018 Panel member, Department Committee for ICRF applications, DoC, IC.

04/2018 Speaker, Career Course "After Your PhD—An Eye to the Future", HiPEDS, IC.

09/2017 Speaker, Industrial Board Committee meeting, DoC, IC.

12/2016 Speaker, Springboard Women's Development Programme, IC.

2015 School outreach organizer and volunteer, DoC Outreach Programme, IC.

2014 Panelist, PhD careers event, DoC, IC.

2014 Judging panelist, Google Poster Competition, DoC, IC.

2013–2018	ATHENA select committee, DoC, IC.
2013	Speaker, Springboard Women's Development Programme, IC.
2011–present	Interview panelist, Postdoctoral Development Centre, IC.

REFEREES

Available upon request.