Curriculum Vitae

Glynn Winskel

Full name: Glynn Winskel

Work addresses:
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Qualifications:
- B.A. in Mathematics, M.A., Cambridge (1975).
- M.Sc. in Mathematics, Oxford (1976).
- Ph.D. in Computer Science, Edinburgh (1980).
- Sc.D., Cambridge (1995).

Foreign languages: Danish (fluent), French.

Positions:
- Research Associate, Edinburgh (Sep 1979–Aug 1980).
- Visiting Lecturer, Aarhus, Denmark (Sep–Dec 1980).
- Royal Society Postdoctoral Research Fellow (Jan 1981–Jan 1982). Research Scientist, Carnegie-Mellon University, USA (Mar 1982–Dec 1983).
- University Lecturer in Computer Science, Cambridge (Jan 1984–Oct 1987)
- Reader in Theoretical Computer Science Cambridge (Oct 1987–Jul 1988).
- Fellow of King's College, Cambridge (Jul 1985–Jul 1988).
- Professor of Computer Science, Aarhus, Denmark (Jul 1988–Oct 2000).
- Director of BRICS, Centre for Basic Research in Computer Science, Aarhus (Jan 1994–Oct 2000).
- Professor of Computer Science, Cambridge, England (Oct 2000–).
- Fellow of Emmanuel College, Cambridge (Oct 2000–).
- Guest professorships: ENS Paris (2002), Paris XIII (2004), PPS Paris VII (2006, 2013), Aarhus (regularly, 2000–13).

Awards, honours:
- Member of Academia Europaea;
- Turing Fellow, Alan Turing Institute. 2018–20;
- Visiting Research Fellow, Collegium de Lyon, 2017–18;
- Test of Time Award 2013, Logic in Computer Science;
- Awarded Advanced Grant of the European Research Council, 2011–17;
- Royal Society Leverhulme Trust Senior Research Fellowship, 2010–11;
- British Computer Society Brendan Murphy Memorial Award in Distributed Computation, 2002;
- Danmarks Grundforskningsfond research leader 1994-2000, to establish and direct research centre BRICS (funding, 1M euro a year).

Consultancy: TopExpress (1986–87). Microsoft Research, around 2 months a year (1998–2000).

Administration: Sundry university and college committees at Aarhus and Cambridge.

Miscellaneous activities:
Editorial board of "Mathematical Structures in Computer Science" Cambridge University Press. Editorial board of "Transactions on Petri Nets and Other Models of Concurrency" Springer Lecture Notes in Computer Science. Guest Editor of Information and Computation LICS'97 Special Issue. Guest Editor "Annals of Pure and Applied Logic" devoted to the proceedings of PTAC (1998). Member of LICS Organizing Committee (1996–2003), Advisory Committee (2004-). On the three-man LICS Test-of-Time Award Committee 2006-7 and 2008-9. Advisory board of the journal Higher-Order and Symbolic Computation. Editorial Board of Semantic Structures in Computation, Kluwer Academic Publishers (-2003). Advisory Board Higher Order and Symbolic Computation (HOSC) (2002-). On Board of EASL (European Association of Symbolic Logic) (2005-). Referee for numerous international journals and conferences as well as reviewer of NSF and Canadian research proposals. Served on numerous evaluation committees. Some recent

programme committees: Mathematical Foundations of Program Semantics, New Orleans, 1995; Logic In Computer Science '96, Rutgers; Logic In Computer Science '97, Warsaw, Chairman; International Conference on Automata Languages and Programming '98, Aalborg, Co-chairman; CONCUR'99; FOSSACS 2000; WOLLIC'02; CONCUR'03; APPSEM'04, WISP'04; APPSEM'05, CONCUR'05, FOSSACS'05, UFO'07, FICS'08, Chair of LICS Test-of-Time Award Committee 2010; SASB 2010, SASB 2011, DCM 2012 (Co-chair), invited LICS 2013 and POPL 2013, CSL 2019, EU Reviewer.

Examination and Evaluation duties:

PhD examiner for the universities of Oxford, Cambridge (in Pure Mathematics and Computer Science), University of Copenhagen, Denmark's Technical University at Lyngby, Edinburgh, Ecole Polytechnique and Ecole Nationale Supérieure des Mines, Paris, Manchester, Marseilles, Aalborg, Aarhus, Sussex, Université du Québec à Montreal, Rennes and the Free University of Amsterdam. D.Sc. and Habilitation examiner for Cambridge, Paris, Sheffield, Aarhus, Rennes and Savoie Mont Blanc universities. On evaluation committees for research positions, assistant-lectureship, lectureship, readership and professorship positions in Denmark, Sweden, Germany and the UK. EU, ERC and EPSRC reviewer. Public Examiner in the Honour School of Mathematics and Computation, Public Examiner in the Honour School of Computation, University of Oxford (1997–2000). MFOCS Examiner in Oxford (Mathematics and CS) 2002–05. Panel member Irish Advanced Laureate Awards 2018/2019.

Research grants:

- SERC grantholder at Cambridge on "Models and logic for parallel computation" (1985–88).
- Holder of a Danish Research Council grant (1989–92).
- On the steering and programme committees of DART a medium size research collaboration between Aarhus, Aalborg and Copenhagen universities (1992–1994).
- BRICS: Founding and scientific director of BRICS (Basic Research in Computer Science), research centre of the Danish Research Foundation (1994–2000).
- Site leader of EU projects CEDISYS, CLICS I and II, LINEAR, APPSEM.
- EPSRC grantholder at Cambridge on "Domain theory for concurrency" (2004–08).
- Three successful applications for EPSRC Fellowships for Abbes, Sobocinski and Staton, originally employed on above grant (Abbes and Sobocinski left for permanent lectureships in Paris and Southampton resp., 2008).

- Emmanuel College Derek Brewer visiting fellowship for P-L Curien (April–June 2009).
- Royal Society Leverhulme visiting professorship for P-L Curien (3 months 2009&2010).
- Royal Society Leverhulme fellowship 2010–11. Research Council Advanced grant ECSYM (Events, Causality and Symmetry—the next generation semantics), 2011–2017.

Teaching and supervision:

I have taught at Edinburgh, Aarhus, Pisa, Carnegie-Mellon, Stanford and Cambridge universities and supervised PhD students at Carnegie-Mellon, Cambridge, Aarhus universities and at ENS Lyon.

Masters students, Aarhus 1988-2000:

- Sten Agerholm and Henrik Skjødt: Automating a model checker for recursive modal asssertions in HOL. Student project, DAIMI IR-92, 1990.
- Sten Agerholm: Program refinement in HOL. MSc thesis, 1992.
- Ann-Grete Tan, Anders Pilegaard and Peter Strarup Jensen: Defining mutually recursive types in HOL. Student project, DAIMI IR-99, 1990
- Ann-Grete Tan, Anders Pilegaard: Programming with proofs. MSc thesis, 1991.
- Brian Andersen and Carsten Rickers: A low level circuit model in HOL. Student project, 1990.
- Michael Pedersen, Jens Bæk Jørgensen and Rikke Drewsen Andersen: Literal resolution in the propositional calculus using the HOL theorem prover. Student project, 1990.
- Poul Christensen and Hans Jacob Pedersen: Automating mutually recursive type definition in HOL. Student project, DAIMI IR-94, 1990
- Poul Christensen and Hans Jacob Pedersen: A reformulation of Lamport's Temporal Logic of Actions. MSc thesis, 1993.
- Ole I. Hougaard: Computability in HOL—a model for computation in formal logic. MSc thesis, 1993.
- Urban Engberg: Analyzing authentication protocols. Student project, DAIMI IR-97, 1990.
- Claus Torp Jensen: The concurrency workbench with priority. Student project, 1992.
- Bettina Blaaberg Sørensen and Christian Clausen: Adequacy results for a lazy functional language with recursive and polymorphic types. Student project, 1992. Published in Theor.Comp.Sc., 1994.
- Henrik Enstrøm: A model of polymorphism in the effective topos. MSc thesis, 1997.

PhD students:

- Jonathon Billington: Coloured Petri Nets. 1989.
- Guo-Qiang Zhang: Logic of Domains. 1991. Published by Birkhäuser.
- Juanito Camilleri: Priority in Process Calculi. 1991.

- Henrik Reif Andersen: Verification of temporal properties of concurrent systems. 1993.
- Sten Agerholm: Domain Theory in HOL. 1994.
- Claus Torp Jensen: Prioritized and independent actions in distributed computer systems. 1994.
- Urban Engberg: Reasoning in the Temporal Logic of Actions, the design and implementation of an interactive computer system. 1996.
- Torben Braüner: An Axiomatic Approach to Adequacy. 1996.
- Gian Luca Cattani: Presheaf Models for Concurrency. 1999.
- Thomas Troels Hildebrandt: Categories of models for concurrency—independence, fairness and dataflow. 2000.
- Mikkel Nygaard: Domain Theory for Concurrency. 2003.
- Mario Jose Caccamo: A Formal Calculus for Categories. 2003.
- Federico Crazzolara: Language, Semantics, and Methods for Security Protocols. 2003.
- Daniele Varacca: Probability, Nondeterminism and Concurrency two denotational models for probabilistic computation. 2003.
- Lucy Saunders-Evans, Event Structures with Persistence. 2007.
- Jonathan Hayman, Petri net semantics. 2009.
- David Turner, Nominal domain theory for concurrency. 2009.
- Christopher Thompson-Walsh. Semantics and extension of a biological modelling language, 2012.
- John Wickerson. Concurrent verification for sequential programs, 2013.
- Steffen Lösch. Program equivalence in functional metaprogramming via nominal Scott domains, 2014.
- Alexander Katovsky. Games as Factorization Systems, 2016.
- Current students: Hugo Paquet, and co-supervising with Pierre Clairambault of ENS Lyon, Aurore Alcolei, Marc de Visme.

Some invitations:
WoLLIC'2000 Brazil; MFPS 2000, Aarhus; FICS'02, Copenhagen; Colloquium in honour of Dana Scott's 70th birthday, FLoC'02 Copenhagen; Fields Institute Summer School, Ottawa, 2003; LICS'03 workshop on Causality in Computer Science and Physics, Ottawa, 2003; ISDT'03, Xi'an China; WISP'04, Bologna; LICS'05, Chicago, 2005; EXPRESS'05, San Francisco; 60th Birthday Event in Edinburgh for Gordon Plotkin, 2006; Logic Summer School, Canberra, 2006; USMC'07 Canberra; CALCO'07 Bergen; Journées J-Y Girard, Paris 2007; CHOCO project theme-day on Event Structures, ENS Lyon, April 2008; Colloquium in Honour of Ugo Montanari on his 65'th birthday, Pisa, June 2008; ISDT'09, Shanghai China; IP2009, New Orleans,

USA; Workshop on Systems Biology, Bellairs Research Institute (McGill Univ), Barbados, March 2010; SAS 2010, Perpignan; Christmas Lecture at the Midlands Graduate School (Birmingham, Leicester, Nottingham and Sheffield Universities), December 15, 2010; Harvard Medical School, two weeks in November 2010 and in 2011; CHOCO project, ENS Lyon, April 2011; Information Security Workshop, ISR 2011, Oxford; Nordic Workshop on Programming Theory, Västerås, Sweden, 2011, Robin Milner Memorial 2012, Edinburgh; FOSSACS 2012, Tallin; ACCATS 2013, Rome; Opening lecture at the new-building celebrations of Labs PPS and LIAFA, Paris, April 2013; 60th Birthday Event in Oxford for Samson Abramsky, May 2013; 60th Birthday Event in Venice for Pierre-Louis Curien, September 2013; ISDT'13, October 2013, Changsha; LOCALI 2013, Beijing, November 2013; WIP2013, CIAPA (Tulane Univ), Costa Rica, December 2013. Workshop on Probability, Bellairs Research Institute (McGill Univ), Barbados, March 2014; GALOP 2014, April 2014, Grenoble; DOMAINS XI, September 2014, Paris. Keynote speaker for ICTAC'15, Cali, Columbia, October 2015; Workshops at the Alan Turing Institute in London, 'Logical foundations of Data Science' workshop 16-17 November, 2015 and 'Probabilistic Programming', 4-5 February 2016; Workshop on Semantics, Bellairs Research Institute (McGill Univ), Barbados, March 2016; WIP 2016, Fontainebleau, France, April, 2016; Invited participant and speaker, the "thematic trimester" (IRIT with Math. Inst. at Toulouse) on interaction of Mathematics, Philosophy and Informatics. June 2016; GDP70, British Logic Colloquium, on the occasion of Gordon Plotkin's 70th birthday, September 2016. Invitation to Dagstuhl, November 2016 on weak memory models. Keynote speaker MFCS, Aalborg, August 2017; Invited speaker "Logical Time Computational time," Lyon, Nov 2017; Workshop on Logical Foundations for Data Science, Bellairs Research Institute (McGill Univ), Barbados, March 2018; Invited speaker at Journées Nationales 2018 du GDR Informatique Mathématique, 3-6 April 2018, Ecole polytechnique, Palaiseau; Invited speaker, Chocola Meeting, Lyon, 12 April 2018; Invited speaker, Fédération Informatique de Lyon, 26 April 2018; Invited speaker at Game Semantics 25 and Workshop on Domain Theory, FLOC'18, Oxford, July 2018; Bellairs workshop on Learning and Verification, 15-22 March, 2019.