Biosketch of Henri Berestycki

(May 2021)

Professionnal Career

2001 – Professor, École des hautes études en sciences sociales (EHESS), Chair of Mathematical analysis and modelling, Centre d'analyse et mathématiques sociales, CNRS - EHESS

2015–2017, Vice–President for research, Université PSL, Paris

2002–2013, Director, Centre d'analyse et mathématique sociales, CNRS - EHESS

2004-2006, Vice–President, EHESS

1989–1999, Professor, École normale supérieure, Paris (part-time)

1988–2001, Professor, Université Pierre et Marie Curie, Sorbonne Université

1987–1999, Professor (part time), École Polytechnique

1983–1988, Professor, Université Paris-Nord

1977–1983, Researcher, CNRS, Univ. P. et M. Curie

1975 – 1977, L.E. Dickson instructor, Department of Mathematics, University of Chicago

Education

Doctorat d'État ès Sciences (Habilitation), 1981, Univ. P. et M. Curie ; committee : J. Leray (President), H. Brezis, Ph. Ciarlet, C. Foias, R. Glowinski, M. Hervé, E. Malinvaud

PhD, Univ. P. et M. Curie (Sorbonne Université), 1975, advisor: H. Brezis

École normale supérieure, Paris, 1971 – 1975

Fields of research

Partial Differential Equations (PDE), Non-Linear Analysis, Calculus of Variations, Mathematical Physics, Qualitative Theory of Non linear Parabolic and Elliptic PDE's, Reaction–Diffusion Equations, Propagation Phenomena, Mathematical Modelling in Physics, Biology, Ecology, Epidemiology, and Social Sciences.

Distinctions and Awards

Foreign Honorary Member, American Academy of Arts and Sciences, 2013

Honorary Professor, Harbin Institute of Technology, 2017

Sackler Scholar, Institute of Advanced Study, Tel Aviv University, 2017

Fellow of the American Mathematical Society, 2013

Knight of the French Legion of honor, 2010

Sophie Germain prize, French Academy of Sciences, Paris, 2004

Humboldt – Gay-Lussac Prize, Humboldt Foundation, Germany, 2004

Carrière prize of the French Academy of Sciences, Paris, 1988

PhD advisor

Supervision of more than 30 PhD students

Major grants

NSF focussed research grant (FRG), 2011-2014, DMS-1065971, (CI), *Collaborative Research: Emerging Issues in the Sciences Involving Non-Standard Diffusion*, with Luis Caffarelli, Yanyan Li, Fanghua Lin and Luis Silvestre.

European ERC advanced grant ("Senior") 6 years grant for the period 2013-2018, project "ReaDi", *Reaction-Diffusion Equations, Propagation and Modelling*.

Selected long term visiting positions and distinguished lectures

2020, Australian Mathematical Society annual meeting, plenary lecture

2019, (4 months), Poincaré visiting professor, Dept. of Mathematics, Stanford Univ., Poincaré distinguished lecture

2018 – , Senior Visiting Fellow, Institute of Advanced Study, Hong Kong University of Science and Technology

2019 – 2022, Sackler Professor, Department of Mathematics, Tel Aviv University

2019, Niven Lecture, UBC, Vancouver

2018, Coxeter Lectures, Fields Institute, Univ. of Toronto

2018, Lonseth Lecture, Oregon State University

2017, Joe Keller Lecture, Stanford University

2005–2014, Visiting professor, Department of mathematics, University of Chicago

2011 Wolfgang Wasow distinguished lecture, University of Wisconsin, Madison

2006 Alan Tayler lecture, Oxford University

2006 Joseph D'Atri lectures, Rutgers University

2006 Ordway distinguished visitor, University of Minnesota, Minneapolis.

Editorial Boards of Scientific Journals

Member of Editorial Boards of several scientific journals among which: Annales de l'Institut Henri Poincaré, Analyse non linéaire, and Journal of the European Mathematical Society (2002-2015)

Selected organization activities

Mai 2020, International on line conference: *Modelling the propagation of Covid-19*

Co-organizer of the NSF program *Collaborative Research: Emerging Issues in the Sciences Involving Non-Standard Diffusion*, with Luis Caffarelli, Yanyan Li, Fanghua Lin and Luis Silvestre.

2002, Coordinator of the program *Dynamics of reactive fronts*, Centre Émile Borel, Institut Henri Poincaré, Paris

1999, Director *NATO Advanced Scientific Institute*, Cargese : *PDE's in Models of Superfluidity, Superconductivity and Reactive Flows*