



# EPFL Doctorate Award

To recognize doctoral work of exceptional quality and to attract highly qualified researchers.

Award	Year	Winner	Research Subject	EPFL Thesis number	Thesis director	Infoscience record
EPFL Doctorate Award	2023	MARK HUDSON	A systematic CRISPR approach to understanding the role of Drosophila antimicrobial peptides in immunity in vivo	EPFL thesis n° 8880	Prof. B. Lemaitre	<a href="https://infoscience.epfl.ch/record/291120?ln=fr">https://infoscience.epfl.ch/record/291120?ln=fr</a>
EPFL Doctorate Award	2023	ARTHUR JACOT	Theory of Deep Learning: Neural Tangent Kernel and Beyond	EPFL thesis n° 9825	Prof. C. Hongler	<a href="https://infoscience.epfl.ch/record/295831?ln=fr">https://infoscience.epfl.ch/record/295831?ln=fr</a>
EPFL Doctorate Award	2022	LANA JOSIPOVIC	High-Level Synthesis of Dynamically Scheduled Circuits	EPFL thesis n° 7211	Prof. P. Ienne	<a href="https://infoscience.epfl.ch/record/287473?ln=fr">https://infoscience.epfl.ch/record/287473?ln=fr</a>
EPFL Doctorate Award	2022	MIKHAIL NIKOLAEV	Engineering next generation organoids through guided stem cell self-organisation	EPFL thesis n° 7568	Prof. M. Lutolf	<a href="https://infoscience.epfl.ch/record/287931?ln=fr">https://infoscience.epfl.ch/record/287931?ln=fr</a>
EPFL Doctorate Award	2022	MICHELE SIMONCELLI	Thermal transport beyond Fourier, and beyond Boltzmann	EPFL thesis n° 8158	Prof. N. Marzari	<a href="https://infoscience.epfl.ch/record/285895?ln=fr">https://infoscience.epfl.ch/record/285895?ln=fr</a>
EPFL Doctorate Award	2021	CIARROCCHI ALBERTO	Electronic, excitonic and magnetic properties of two-dimensional heterostructures	EPFL thesis n° 8443	Prof. A. Kis	<a href="https://infoscience.epfl.ch/record/279549?ln=fr">https://infoscience.epfl.ch/record/279549?ln=fr</a>
EPFL Doctorate Award	2021	LIU JUNQIU	Silicon Nitride Nonlinear Integrated Photonics	EPFL thesis n° 10343	Prof. T. J. Kippenberg	<a href="https://infoscience.epfl.ch/record/279965?ln=fr">https://infoscience.epfl.ch/record/279965?ln=fr</a>
EPFL Doctorate Award	2020	MARTA FALCONE	Small Molecule Activation by Multimetallic Uranium Complexes	EPFL thesis n° 9539 (2019)	Prof. M. Mazzanti	<a href="https://infoscience.epfl.ch/record/265984?ln=fr">https://infoscience.epfl.ch/record/265984?ln=fr</a>
EPFL Doctorate Award	2020	JAKUB TARNAWSKI	New Graph Algorithms via Polyhedral Techniques	EPFL thesis n° 9622 (2019)	Prof. O. Svensson	<a href="https://infoscience.epfl.ch/record/267500?ln=fr">https://infoscience.epfl.ch/record/267500?ln=fr</a>
EPFL Doctorate Award	2019	RAJAI NASSER	Polarization and Channel Ordering: Characterizations and Topological Structures	EPFL Thesis n° 7912 (2018)	Prof. E. Telatar	<a href="https://infoscience.epfl.ch/record/231813?ln=en">https://infoscience.epfl.ch/record/231813?ln=en</a>
EPFL Doctorate Award	2019	CYRIL PIEMONTESI	Indole Alkaloids, Macrocycles and Heterocycles Interplay between Methodological Development and Total Synthesis	EPFL Thesis n° 8477 (2018)	Prof. J. Zhu	<a href="https://infoscience.epfl.ch/record/254880?ln=en">https://infoscience.epfl.ch/record/254880?ln=en</a>
EPFL Doctorate Award	2018	JULIEN FAGEOT	Gaussian versus Sparse Stochastic Processes: Construction, Regularity, Compressibility	EPFL Thesis n° 7657 (2017)	Prof. M. Unser	<a href="https://infoscience.epfl.ch/record/227453?ln=en">https://infoscience.epfl.ch/record/227453?ln=en</a>



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EPFL Doctorate Award	2017	PRISCILLA BRIQUEZ	Therapeutic Proteins Engineered for Super-Affinity to the Extracellular Matrix in Regenerative Medicine	EPFL Thesis n° 7103 (2016)	Prof. J. Hubbell	<a href="https://infoscience.epfl.ch/record/220239?ln=en">https://infoscience.epfl.ch/record/220239?ln=en</a>
EPFL Doctorate Award	2017	JIANDONG FENG	Probing chemical structures and physical processes with nanopores	EPFL Thesis n° 7082 (2016)	Prof. A. Radenovic	<a href="https://infoscience.epfl.ch/record/219125?ln=en">https://infoscience.epfl.ch/record/219125?ln=en</a>
EPFL Doctorate Award	2016	IVAN DOKMANIĆ	Listening to Distances and Hearing Shapes: Inverse Problems in Room Acoustics and Beyond	EPFL Thesis n° 6623 (2016)	Prof. Martin. Vetterli	<a href="https://infoscience.epfl.ch/record/208779?ln=en">https://infoscience.epfl.ch/record/208779?ln=en</a>
EPFL Doctorate Award	2016	GIULIA MARINO	« Some Like It Hot ! » Le confort physiologique et ses dispositifs dans l'architecture du XXe siècle : histoire et devenir d'un enjeu majeur.	EPFL Thesis n° 6139 (2014)	Prof. F. Graf	<a href="https://infoscience.epfl.ch/record/199079?ln=en">https://infoscience.epfl.ch/record/199079?ln=en</a>
EPFL Doctorate Award	2016	EVAN WILLIAMS	A Systems Approach to Identify Genetic and Environmental Regulators of Metabolism.	EPFL Thesis n° 6486 (2015)	Prof. J. Auwerx	<a href="https://infoscience.epfl.ch/record/206114?ln=en">https://infoscience.epfl.ch/record/206114?ln=en</a>
EPFL Doctorate Award	2015	LUKAS KULL	High-Speed CMOS ADC Design for 100 Gb/s Communication Systems.	EPFL Thesis n° 6037 (2014)	Prof. Y. Leblebici et Prof. T. Toifl	<a href="https://infoscience.epfl.ch/record/195802?ln=en">https://infoscience.epfl.ch/record/195802?ln=en</a>
EPFL Doctorate Award	2015	GILLES PUY	Efficient compressive sampling strategies and novel reconstruction methods with applications in MRI.	EPFL Thesis n° 6036 (2014)	Prof. P. Vandergheynst	<a href="https://infoscience.epfl.ch/record/195233?ln=en">https://infoscience.epfl.ch/record/195233?ln=en</a>
EPFL Doctorate Award	2014	EMANUEL GAVARTIN	Optonanomechanical systems for measurement applications.	EPFL Thesis n° 5726 (2013)	Prof. T. Kippenberg	<a href="https://infoscience.epfl.ch/record/186693?ln=en">https://infoscience.epfl.ch/record/186693?ln=en</a>
EPFL Doctorate Award	2014	RAPHAËL HUSER	Statistical modeling and inference for spatio-temporal extremes.	EPFL Thesis n° 5946 (2013)	Prof. A. Davison	<a href="https://infoscience.epfl.ch/record/188557?ln=en">https://infoscience.epfl.ch/record/188557?ln=en</a>
EPFL Doctorate Award	2013	FEDERICO FELICI	Real-Time Control of Tokamak Plasmas: from Control of Physics to Physics-Based Control.	EPFL Thesis n° 5203 (2011)	Prof. O. Sauter & Prof. T. Goodman	<a href="https://infoscience.epfl.ch/record/168656?ln=en">https://infoscience.epfl.ch/record/168656?ln=en</a>
EPFL Doctorate Award	2013	EREN SASOGLU	Polar Coding Theorems For Discrete Systems	EPFL Thesis n° 5219 (2011)	Prof. E. Telatar	<a href="https://infoscience.epfl.ch/record/168993?ln=en">https://infoscience.epfl.ch/record/168993?ln=en</a>



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EPFL Doctorate Award	2012	KONSTANTINOS LAGOUDAKIS	On the Physics of Exciton-Polariton Condensates.	EPFL Thesis n° 4891 (2010)	Prof. B. Deveaud-Plédran	<a href="https://infoscience.epfl.ch/record/152304?ln=en">https://infoscience.epfl.ch/record/152304?ln=en</a>
EPFL Doctorate Award	2012	OLEG VECHORKIN	A Well-Defined Ni Pincer Catalyst for Cross Coupling of Non-Activated Alkyl Halides and Direct C-H Alkylation	EPFL Thesis n° 5058 (2011)	Prof. X. Hu	<a href="https://infoscience.epfl.ch/record/165384?ln=en">https://infoscience.epfl.ch/record/165384?ln=en</a>
EPFL Doctorate Award	2011	AYFER ÖZGÜR AYDIN	Fundamental limits and optimal operation in large wireless networks.	EPFL Thesis n° 4483 (2009)	Dr. O. Leévêque & Prof. E. Teletar	<a href="https://infoscience.epfl.ch/record/138939?ln=en">https://infoscience.epfl.ch/record/138939?ln=en</a>
EPFL Doctorate Award	2011	BRUCE YODER	Steric effects in the chemisorption of vibrationally excited methane on nickel.	EPFL Thesis n° 4784 (2010)	Prof. R. Beck	<a href="https://infoscience.epfl.ch/record/149393?ln=en">https://infoscience.epfl.ch/record/149393?ln=en</a>
EPFL Doctorate Award	2010	ALEXANDER EIGENBROD	Astrophysical applications of gravitationally lensed quasars : from dark matter halos to the structure of quasar accretion disks.	EPFL Thesis n° 4235 (2008)	Prof. G. Meylan & Prof. F. Courbin	<a href="https://infoscience.epfl.ch/record/128122?ln=en">https://infoscience.epfl.ch/record/128122?ln=en</a>
EPFL Doctorate Award	2010	EFFROSYNI KOKIOPOULOU	Geometry-aware analysis of high-dimensional visual information sets.	EPFL Thesis n° 4296 (2008)	Prof. P. Frossard	<a href="https://infoscience.epfl.ch/record/129776?ln=en">https://infoscience.epfl.ch/record/129776?ln=en</a>
EPFL Doctorate Award	2009	RADU JURCA	Truthful reputation mechanisms for online systems.	EPFL Thesis n° 3955 (2007)	Prof. B. V. Faltings	<a href="https://infoscience.epfl.ch/record/111856?ln=en">https://infoscience.epfl.ch/record/111856?ln=en</a>
EPFL Doctorate Award	2009	AGNIESZKA KAPALKA	Reactivity of electrogenerated free hydroxyl radicals and activation of dioxygen on boron-doped diamond electrodes.	EPFL Thesis n° 4129 (2008)	Prof. C. Comninellis	<a href="https://infoscience.epfl.ch/record/124754?ln=en">https://infoscience.epfl.ch/record/124754?ln=en</a>
EPFL Doctorate Award	2008	DAVID GFELLER	Simplifying complex networks : from a clustering to a coarse graining strategy.	EPFL Thesis n° 3888 (2007)	Prof. P. De Los Rios	<a href="https://infoscience.epfl.ch/record/109759?ln=en">https://infoscience.epfl.ch/record/109759?ln=en</a>
EPFL Doctorate Award	2008	HAN ANG WEE	Novel strategies for overcoming drug resistance in transition metal-based.	EPFL Thesis n° 3784 (2007)	Prof. P. Dyson	<a href="https://infoscience.epfl.ch/record/101060?ln=en">https://infoscience.epfl.ch/record/101060?ln=en</a>
EPFL Doctorate Award	2007	PHILIPPE CUDRÉ-MAUROUX	Emergent semantics: rethinking interoperability for large scale decentralized information systems.	EPFL Thesis n° 3690 (2006)	Prof. K. Aberer	<a href="https://infoscience.epfl.ch/record/91131?ln=en">https://infoscience.epfl.ch/record/91131?ln=en</a>
EPFL Doctorate Award	2007	YVES DE CORNULIER	On Haagerup and Kazhdan properties.	EPFL Thesis n° 3438 (2006)	Prof. P. Buser & Prof. A. Valette	<a href="https://infoscience.epfl.ch/record/62763?ln=en">https://infoscience.epfl.ch/record/62763?ln=en</a>



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EPFL Doctorate Award	2006	MUTHUVEL ARIGOVINDAN	Variational Reconstruction of vector and scalar images From Non-Uniform Samples.	EPFL Thesis n° 3329 (2005)	Prof. M. Unser	<a href="https://infoscience.epfl.ch/record/53652?ln=en">https://infoscience.epfl.ch/record/53652?ln=en</a>
EPFL Doctorate Award	2006	PATRICK MAYOR	Fluid and Glassy Phases of Vibrated Granular Matter Studied with a Torsion Oscillator.	EPFL Thesis n° 3334 (2005)	Prof. G. Gremaud	<a href="https://infoscience.epfl.ch/record/53657?ln=en">https://infoscience.epfl.ch/record/53657?ln=en</a>
EPFL Doctorate Award	2005	EWALD RÖSSL	Topological defects and gravity in theories with extra dimensions.	EPFL Thesis n° 3088 (2004)	Prof. M. Chapochnikov	<a href="https://infoscience.epfl.ch/record/33557?ln=en">https://infoscience.epfl.ch/record/33557?ln=en</a>
EPFL Doctorate Award	2005	PIERRE ZIGNANI	Le Temple d'Hator à Dendera: conception architectonique d'un temple pharaonique.	EPFL Thesis n° 2888 (2004)	Prof. P. von Meiss	<a href="https://infoscience.epfl.ch/record/33363?ln=en">https://infoscience.epfl.ch/record/33363?ln=en</a>
EPFL Doctorate Award	2004	ALEXANDRE CABOUSSAT	Analysis and Numerical Simulation of Free Surface Flow.	EPFL Thesis n° 2893 (2003)	Prof. J. Rappaz	<a href="https://infoscience.epfl.ch/record/33368?ln=en">https://infoscience.epfl.ch/record/33368?ln=en</a>
EPFL Doctorate Award	2004	QUENTIN LADETTO	Capteurs et algorithmes pour la localisation autonome en mode pedestre.	EPFL Thesis n° 2710 (2002)	Prof. B. Merminod	<a href="https://infoscience.epfl.ch/record/33186?ln=en">https://infoscience.epfl.ch/record/33186?ln=en</a>
EPFL Doctorate Award	2003	MICHAEL GASTPAR	To code or not to code.	EPFL Thesis n° 2687 (2002)	Prof. B. Rimioldi & Prof. M. Vetterli	<a href="https://infoscience.epfl.ch/record/33163?ln=en">https://infoscience.epfl.ch/record/33163?ln=en</a>
EPFL Doctorate Award	2003	LUCA PERFETTI	Angle resolved photoelectron spectroscopy on strongly correlated electron-phonon systems.	EPFL Thesis n° 2656 (2002)	Prof. G. Margaritondo	<a href="https://infoscience.epfl.ch/record/33132?ln=en">https://infoscience.epfl.ch/record/33132?ln=en</a>
EPFL Doctorate Award	2002	MINH N. DO	Directional multiresolution image representation.	EPFL Thesis n° 2500 (2001)	Prof. M. Vetterli	<a href="https://infoscience.epfl.ch/record/32976?ln=en">https://infoscience.epfl.ch/record/32976?ln=en</a>
EPFL Doctorate Award	2002	HOUMAN OWHADI	Anomalous diffusion and homogenization on an infinite number of scales.	EPFL Thesis n° 2340 (2001)	Prof. G. Ben Arous	<a href="https://infoscience.epfl.ch/record/32816?ln=en">https://infoscience.epfl.ch/record/32816?ln=en</a>
EPFL Doctorate Award	2001	ANGELO ARLEO	Spatial learning and navigation in neuro-mimetic systems.	EPFL Thesis n° 2312 (2000)	Prof. W. Gerstner	<a href="https://infoscience.epfl.ch/record/32788?ln=en">https://infoscience.epfl.ch/record/32788?ln=en</a>
EPFL Doctorate Award	2001	UDO BACH	Solid-state dye-sensitized mesoporous TiO2 solar cells.	EPFL Thesis n° 2187 (2000)	Prof. M. Grätzel	<a href="https://infoscience.epfl.ch/record/32663?ln=en">https://infoscience.epfl.ch/record/32663?ln=en</a>



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EPFL Doctorate Award	2000	LUKAS BURGI	Scanning Tunneling Microscopy as Local Probe of Electron Density, Dynamics and Transport at Metal Surfaces.	EPFL Thesis n° 2033 (1999)	Prof. K. Kern	<a href="https://infoscience.epfl.ch/record/32510?ln=en">https://infoscience.epfl.ch/record/32510?ln=en</a>
EPFL Doctorate Award	2000	MARC-ALEXANDRE DUBOIS	Aluminium Nitride and Lead Zirconate Thin Films for Ultrasonic Applications: Integration, Properties and Devices.	EPFL Thesis n° 2086 (1999)	Prof. N. Setter	<a href="https://infoscience.epfl.ch/record/32562?ln=en">https://infoscience.epfl.ch/record/32562?ln=en</a>
EPFL Doctorate Award	2000	MARTIN KUTTER	Digital Image Watermarking: Hiding Information in Images.	EPFL Thesis n° 2054 (1999)	Prof. M. Kunt	<a href="https://infoscience.epfl.ch/record/32531?ln=en">https://infoscience.epfl.ch/record/32531?ln=en</a>
EPFL Doctorate Award	1999	NILS BERGLUND	Adiabatic Dynamical Systems and Hysteresis.	EPFL Thesis n° 1800 (1998)	Prof. H. Kunz	<a href="https://infoscience.epfl.ch/record/32277?ln=en">https://infoscience.epfl.ch/record/32277?ln=en</a>
EPFL Doctorate Award	1999	CHRISTIANE MONTAVON	Simulation of Atmospheric Flows over Complex Terrain for Wind Power Potential Assessment.	EPFL Thesis n° 1855 (1998)	Prof. G. Sarlos	<a href="https://infoscience.epfl.ch/record/32332?ln=en">https://infoscience.epfl.ch/record/32332?ln=en</a>
EPFL Doctorate Award	1998	KARSTEN BROMANN	Controlling Epitaxial Morphologies on the Microscopic Scale.	EPFL Thesis n° 1620 (1997)	Prof. K. Kern	<a href="https://infoscience.epfl.ch/record/32097?ln=en">https://infoscience.epfl.ch/record/32097?ln=en</a>
EPFL Doctorate Award	1998	LUC MACHIELS	Simulation and Theory of Randomly Forced Turbulence.	EPFL Thesis n° 1724 (1997)	Prof. M. Deville	<a href="https://infoscience.epfl.ch/record/32201?ln=en">https://infoscience.epfl.ch/record/32201?ln=en</a>
EPFL Doctorate Award	1997	JEAN-MARC BONARD	Etude par microscopie électronique des propriétés structurales et optiques de lasers à semiconducteur.	EPFL Thesis n° 1499 (1996)	Prof. J.-D. Ganière	<a href="https://infoscience.epfl.ch/record/31977?ln=en">https://infoscience.epfl.ch/record/31977?ln=en</a>
EPFL Doctorate Award	1997	PATRICK THIRAN	Dynamics and Self-Organization of Locally Coupled Neural Networks.	EPFL Thesis n° 1536 (1996)	Prof. M. Hasler	<a href="https://infoscience.epfl.ch/record/32013?ln=en">https://infoscience.epfl.ch/record/32013?ln=en</a>
EPFL Doctorate Award	1996	ITZHAK AMIDROR	Analysis of Moiré Patterns in Multi-layer Superpositions.	EPFL Thesis n° 1341 (1995)	Prof. R.-D. Hersch	<a href="https://infoscience.epfl.ch/record/31819?ln=en">https://infoscience.epfl.ch/record/31819?ln=en</a>
EPFL Doctorate Award	1996	GERARDO TURCATTI	Novel Fluorescence-based Approaches to Probe Ligand Recognition and Structure of the Tachykinin NK2 Receptor.	EPFL Thesis n° 1426 (1995)	Prof. H. Vogel	<a href="https://infoscience.epfl.ch/record/31904?ln=en">https://infoscience.epfl.ch/record/31904?ln=en</a>
EPFL Doctorate Award						<a href="https://www.epfl.ch/research/awards/epfl-research-awards/">https://www.epfl.ch/research/awards/epfl-research-awards/</a>