



Ljiljana Fruk
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Nationality: Croatian

Work History

Lecturer in Bionanotechnology University of Cambridge, UK Dept. Chem. Engineering and Biotechnology,	Since 2015
Group Leader Karlsruhe Institute of Technology, Germany DFG-Centre for Functional Nanostructures	2008 - 2014
Postdoctoral Researcher University of Dortmund, Germany Chemistry Department (Prof. C. M. Niemeyer)	2004 - 2008
Research Assistant University of Zagreb, Croatia Department of Chemistry	2000

Education

Habilitation in Organic Chemistry Karlsruhe Institute of Technology, Germany Department of Chemistry	July 2014
PhD in Bio-spectroscopy University of Strathclyde, Glasgow, UK Dept. of Pure and Applied Chemistry Prof. Duncan Graham, Prof. Ewan Smith	2000 - 2004
Diploma in Chemistry University of Zagreb, Croatia Faculty of Mathematics and Natural Sciences	1995 - 1999
International Baccalaureate Bilingual Diploma United World College of the Adriatic, Duino, Italy	1993 - 1995

Awards

Cancer Research UK Primer Award (2018), Sidney Sussex College (University of Cambridge) Fellowship (2016), Lindau Nobel Laureate Meeting Fellowship (2010), Finalist of the European Young Chemist Award (2006), Humboldt Fellowship (2004), Marie Curie International Fellowship (2005-2007), Overseas PhD Studentship (2000-2004), University of Zagreb Rector's Award (1999), Republic of Croatia Undergraduate Scholarship (1996-1999), United World College Scholarship.

Languages

Croatian (mother tongue), English (fluent), German (fluent), Italian (fluent), Portuguese and Hindi (beginner)

Institutional Responsibilities

Council of Cambridge Philosophical Society (Member)	since 2019
Public Engagement Advisory Board to Vice Chancellor (Member) University of Cambridge	since 2016
Executive Committee of the Global Challenges Forum (Member) University of Cambridge: University Strategic Research Initiative	since 2016
Science Festival Coordinator University of Cambridge, Dept. Chemical Engineering and Biotechnology	since 2015
Diversity Initiative (Steering Committee Member) University of Cambridge, Dept of Chemical Engineering and Biotechnology	since 2017
Gender Equality Officer Karlsruhe Institute of Technology (KIT), Germany,	2009-2014
Käpsele Connection: Creativity and Innovation Baden Württemberg, Germany, Karlsruhe Institute of Technology (KIT) Representative	2011-2014

Professional Activities

Exhibition Curator: ExoEvolution: international exhibition on art inspired by science, ZKM, Karlsruhe (2015-2016), Molecules and all that Nano exhibition in Technical Museum Zagreb (2016) and University of Cambridge (2017), Molecular Aesthetics (ZKM 2011)

Advisory Board Member of Molecular Biosystems (2010 -2013).

Grant Evaluator for German Science Foundation, Humboldt Fellowship, Horizon 2020, ERC, Wellcome Trust and EPSRC.

Science Popularisation: numerous lectures including Cambridge Science Festival lecture, Politics of Machines keynote lecture (Copenhagen 2018), RSC Chemistry Communication Award Keynote lecture (2015), newspaper articles, TV and radio shows in Germany (including DeutschlandFunk and SWR), UK and Croatia, Molecules that Changed the World 3D exhibition and app,

Molecular Chocolates Designer: these popular science chocolates are on sale in various Museums, Cambridge University Cafes (since 2016) and Zagreb Airport (since 2017).

Publications

65 scientific papers, 2 patents, 2 books, 1 book chapter, 1 app

Applied Physics Letter (2011) paper on DNA based memory devices included in 50th Anniversary Issue of Applied Physics Letters as one of the most significant papers in the past years and featured in numerous popular science magazines and Wikipedia Best of science 2012.

Patents: *Nucleic Acid Identification (SERRS Beacon)*, D. Graham, W.E. Smith, L.Fruk, GB 0319949.1 (granted 2006); *Memory Device with the Double Helix Biopolymer Layer and Fabricating Method Thereof*, Y. C. Hung, L. Fruk US 8772,081 B2 (granted 2016).

Books: Co-author of the first and field-establishing book on *Molecular Aesthetics* (with artist Peter Weibel, MIT Press 2013) and popular science book *25 Molecules that changed the world* (in Croatian, Artresor Naklada 2016, English edition coming later in 2018).

App: Chemistry popularization app *Molecules that changed the world* was developed with Bernd Lintermann (ZKM, Germany) in 2016.