

Velocity Hughes

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Profile

I'm a **research coordinator, scientist and communicator** with 20+ years of experience spanning microbiology, bioanalytical chemistry, biophysics, neuroscience, and musculoskeletal disease. A strong foundation in maths, physics and chemistry, alongside **diverse collaborations** in academics, industry, and healthcare, give me a **well-informed perspective** on a range of research disciplines.

As a consultant, I contribute with my knowledge, curiosity, attention to detail, technical competence, and problem-solving skills. My passion is to *make ideas accessible to the receiver, whether it's a funding agency, fellow specialists, a team-member, or a lay audience.*

Education

2008-2013

Indiana University Bloomington, USA – Ph.D.

Subject: **microbiology**

Other key subjects: genetics, biochemistry, microscopy

2011

Marine Biological Laboratory, Woods Hole, USA – Intensive summer program

Subject: **cellular physiology**

Key topics – molecular, computational and biophysical approaches to biology

2004-2008

Indiana University Bloomington, USA – B.S.

Subject: **neuroscience** (minor: biology)

Other key subjects: psychology, philosophy, creative writing, presentation skills

Through the years

Attendance at a range of conferences and seminars within research and grant writing

Work experience

2023 (*ongoing*)

Synthesis by Velocity – CONSULTANT

Founded a company offering consultancy services in research strategy, grant-writing, project management and communication. (www.synthesis.nu)

2016-2023

Lund University – SCIENTIFIC COORDINATOR

Worked on grant-writing, research, project coordination, communication, student mentorship, web design, database construction and management, etc.

Supervisor: Prof. Martin Englund, Clinical Epidemiology Unit, Faculty of Medicine

2018-2019

Daggmaskens preschool, Malmö – CHAIRMAN OF THE BOARD

Oversaw the preschool's evaluation and development, occupational health and safety, personnel management, finances, etc.

2014-2015

Imperial College London, UK – POSTDOCTORAL FELLOW

Conducted studies on the biophysical properties of the food-borne bacterial pathogen *Campylocacter jejuni*

2008-2013

Indiana University Bloomington, USA – PHD STUDENT

Studied the fundamental mechanisms of cell growth and organization in the bacterial cell wall

2012

Physical Biology of the Cell – PROOF READER

Provided professional proof-reading and editing services, alongside scientific feedback, for a textbook of biophysics on request of Prof. Rob Philips (Caltech, USA)

Publications

Articles in scientific journals: **25** (2 review articles, **3** as first author), in Cell, Current Biology, PNAS, BMJ, etc.
Citations: **1220**, H-index: **13** (Scopus, 2023-11-04)

Awards and grants

2022	The Kocska Foundatin – 1 year project grant for research in osteoarthritis
2014-2015	EMBO Long Term Fellowship – 2 year stipend for research and communication, London, England
2005-2008	Certificate of Highest Scholastic Achievement (Dean's list), Indiana University, USA
2005-2008	Gill Scholarship - 3 year full-stipend for undergraduate tuition, Indiana University, USA

Other activities

In addition to scientific pursuits, I am also an artist and adventurer at heart. This has taken me bike-packing solo from Seattle to Utah in the USA, and some years later with a 2 year-old in tow from Oslo to Gothenburg in Scandinavia. I am an avid photographer, poet, visual artist and stage performer, with a desire to explore the intersections of science, art and adventure.

2020

COVIDpod – PODCAST HOST AND PRODUCER

Created a podcast of 16 episodes on life during the pandemic, through personal interviews with people in different professions and stages of life from around the world

2018 och 2016

Lund's Culture Night – ACTOR

Performed as a clown, acrobat and musician in a self-produced children's theatre show, in collaboration with Elof Wendt

2016, augusti 16

The Malmö festival – MUSICIAN

Created a musical-storytelling show inspired by the life of the British adventurer Gertrude Bell

2015

The Moth StorySLAM, London – STORYTELLER

Narrated a true, personal story in an evening of storytelling, finishing in second place as ranked by judges

2015

Careless Beautiful Studioworks – VISUAL ARTIST

Created 13 works of visual art, with acrylics, oil and graphic design

2011-2016

Earth Microscopy – PHOTOGRAPHER

Hosted a photoblog documenting life and nature from travels in the US, India, Japan, Europe, etc.