

CONTACT INFORMATION	Carl Zeiss AG Carl-Zeiss-Strasse 22 73447 Oberkochen, Germany	Phone: +49 (0)151 213-67757 E-mail: ulrike.boehm@zeiss.com Home: ulrikeboehm.org
SUMMARY	Physicist, optical scientist & data scientist with a passion for community building/engagement, outreach, and teaching: I have over ten years of experience designing, building, and running advanced optical systems, analyzing (microscopy) data, and developing (image) acquisition & analysis workflows. Furthermore, I have been highly engaged in community building/engagement, outreach, and teaching activities focusing on community service, women/diversity in science, open science, and optics/microscopy for more than 15 years.	
RESEARCH INTERESTS	<ul style="list-style-type: none"> • Optics and photonics, particularly involving imaging, microscopy, and optical metrology • Instrument design, development, and application across a wide range of applications (from the life sciences to the physical sciences) • Development of image and data processing and analysis tools • Machine learning and its application in (microscopic) image and data analysis • Statistical methods for large datasets • Open software and hardware tools for imaging, microscopy, and optical metrology 	
POSITIONS	<p>Optical Scientist & Project Team Lead 2022 - present Corporate Research & Technology, Carl Zeiss AG, Oberkochen, Germany</p> <ul style="list-style-type: none"> • Project team lead of a development team within the Corporate Research & Technology (CRT) section at Carl Zeiss AG, working on new tools for imaging, microscopy, & optical metrology • Review and unlock the latest optical trends in imaging, microscopy, & optical metrology • Strong collaboration with internal and external partners • Design and construction of early optical demonstrators/prototypes and their respective control and analysis schemes <p>Research Specialist 2019 - 2021 Janelia Research Campus, Ashburn, VA, USA</p> <ul style="list-style-type: none"> • Design, construction, modification, and troubleshooting of advanced optical systems (iPALM, Lattice Light Sheet Microscope, SiMView Light Sheet Microscope, Aberration Corrected Multifocal Microscope, MOSAIC, FIB-SEM, cryo-SIM, etc.) • Support of (inter)national scientists with their imaging experiments via technical consultations and during their data acquisition at the instruments of Janelia's Advanced Imaging Center (AIC) and Janelia's Light Microscopy Core, and at various other imaging modalities on campus • Troubleshooting of sample preparation • Development and implementation of new image and data analysis strategies for Janelians and users from around the world • Review of proposal drafts and proposals submitted to the Advanced Imaging Center • Design and realization of microscopy and data analysis workshops, symposia, and conferences <p>Postdoctoral Research Fellow 2017 - 2018 National Institutes of Health, National Cancer Institute, Bethesda, MD, USA</p> <ul style="list-style-type: none"> • Design and construction of a microscope for live-cell 5-color single-molecule transcription imaging in eukaryotic cells at high resolution in time and space to capture promoter-enhancer interactions • Development of advanced fluorescence labeling strategies for the genome based on dCas9 (CAS-FISH) • Computational modeling and data analysis of 4D genome data 	

	Ph.D. Student Max Planck Institute for Biophysical Chemistry, Göttingen, Germany Department of NanoBiophotonics (Prof. Dr. Stefan W. Hell) <i>Dissertation title:</i> “4Pi-RESOLFT nanoscopy” <i>Advisor:</i> Prof. Dr. Stefan W. Hell <ul style="list-style-type: none"> • Running of various imaging experiments (samples: block copolymers, synaptic vesicles) on an isoSTED microscope • Design and construction of a two-color STED microscope • Design and construction of a 4Pi-RESOLFT nanoscope, including optical and acquisition system. • Development of acquisition software • System/sample testing and optimization 	2010 - 2016
	Master Student Max Planck Institute of Biochemistry, Martinsried/Munich, Germany Department of Molecular Structural Biology (Prof. Dr. Wolfgang Baumeister) <i>Dissertation title:</i> “Correlative microscopy at liquid nitrogen temperature” <i>Advisors:</i> Dr. Jürgen M. Plitzko, Prof. Dr. Wolfgang Baumeister <ul style="list-style-type: none"> • Development and testing of a cryo transfer shuttle (CryoStage²) for the transfer of amorphous frozen-hydrated samples from a fluorescence to an electron microscope for correlative microscopy • Further development and testing of the software based on scale-invariant feature transform (SIFT) for the correlative microscopy approach 	2009
	Undergraduate Researcher - various research assistant positions <ul style="list-style-type: none"> • Evaluation of the mechanical properties of actin filaments in combination with different actin-binding proteins at the Physics Department of the Technical University of Munich, Germany - Prof Andreas Bausch (2008) • Study of HEK cells with FLIC-microscopy at the Max Planck Institute of Biochemistry, Martinsried, Germany - Prof Peter Fromherz (2008) • Analysis of Multi-SANS data (with MIRA) and data of Cytochrome C (with the Neutron Spin Echo RESEDA) at the Research Neutron Source Heinz Maier-Leibnitz (FRM II), Munich, Germany - Dr. Robert Georgii and Prof Peter Böni (2007) • Study of surfaces and DNA with an AFM at the Physics Department of the Technical University of Munich, Germany - Prof Thorsten Hugel (2006) • Performance evaluation of an animal PET scanner at the university hospital “Rechts der Isar”, Munich, Germany - Prof Sibylle Ziegler (2006) • Data analysis of water levels of the Baltic Sea at the Leibnitz Institute for Baltic Sea Research, Warnemünde, Germany - Dr. Torsten Seifert (2005) 	2005 - 2008
EDUCATION	MicroMasters in Statistics and Data Science Massachusetts Institute of Technology / MITx, Cambridge, MA, USA Ph.D. in Physics Heidelberg University, Heidelberg, Germany Diploma in Physics Technical University of Munich, Munich, Germany	2020 - 2021 2010 - 2015 2004 - 2009
HONORS & AWARDS	Helmsley Fellowship , Helmsley Charitable Trust 66th Lindau Nobel Laureate Meeting , Participant Excellence Award , Max Planck Society Oskar Karl Forster Scholarship , Technical University of Munich Study Career Scholarship , Technical University of Munich	2017 2016 2010 2009 2008

24. Nogueira, A.T., Herron J.C., O'Shaughnessy E.C., **Boehm U.** et al., *Resolving protein conformation in iPALM*. Biophysical Journal (2022). submitted
23. Reiche, M.A., Aaron J., **Boehm U.** et al., *When light meets biology - how the specimen affects quantitative microscopy*. J. Cell Sci. (2022). DOI:10.1242/jcs.259656
22. Gaudreault N., . . . , **Boehm U.** et al., *Illumination Power and Illumination Stability*. protocol.io (2022). DOI:10.17504/protocols.io.bzp8p5rw
21. **Boehm U.** *Janelia+EMBL BioImaging Seminar Series: How We Started a Successful Seminar Series during the Pandemic*. FocalPlane, p1 (2022). DOI:https:10.1242/focalplane.6011
20. Rigano A., . . . , **Boehm U.** et al., *Micro-Meta App: an interactive tool for collecting microscopy metadata based on community specifications*. Nature Methods 18, p1489–1495 (2021). DOI:10.1038/s41592-021-01315-z
19. Hammer M., Huisman M., Rigano A., **Boehm U.** et al., *Towards community-driven metadata standards for light microscopy: tiered specifications extending the OME model*. Nature Methods 18, p1427–1440 (2021). DOI:10.1038/s41592-021-01327-9
18. **Boehm U.***, Nelson G.* et al., *QUAREP-LiMi: A community-driven initiative to establish guidelines for quality assessment and reproducibility for instruments and images in light microscopy*. Journal of Microscopy, p1-18 (2021). DOI:10.1111/jmi.13041
17. **Boehm U.**, Galbraith C. *Extending the performance capabilities of isoSTED*. Biophysical Journal, p3237-3239 (2021). doi:https://doi.org/10.1016/j.bpj.2021.07.005
16. Rigano A., . . . , **Boehm U.** et al., *Micro-Meta App: an interactive software tool to facilitate the collection of microscopy metadata based on community-driven specifications*. bioRxiv, p1-23 (2021). DOI:10.1101/2021.05.31.446382
15. **Boehm U.***, Nelson G.* et al., *QUAREP-LiMi: a community endeavor to advance quality assessment and reproducibility in light microscopy*. Nature Methods, p1-4 (2021). DOI:10.1038/s41592-021-01162-y
14. Huisman M., Hammer M., Rigano A., **Boehm U.** et al., *A perspective on Microscopy Metadata: data provenance and quality control*. arXiv, p1-15 (2021). DOI:https://arxiv.org/abs/1910.11370
13. Hammer M., Huisman M., Rigano A., **Boehm U.** et al., *Towards community-driven metadata standards for light microscopy: tiered specifications extending the OME model*. bioRxiv, p1-27 (2021). DOI:110.1101/2021.04.25.441198
12. Rigano A., **Boehm U.** et al., *WU-BIMAC/NBOMicroscopyMetadataSpecs: 4DN-BINA-OME (NBO) Microscopy Metadata Specifications*. zenodo, (2021). DOI:10.5281/zenodo.4710731
11. **Boehm U.***, Nelson G.* et al., *QUAREP-LiMi: A community-driven initiative to establish guidelines for quality assessment and reproducibility for instruments and images in light microscopy*. arXiv, p1-17 (2021). DOI:https://arxiv.org/abs/2101.09153
10. Galbraith J., Aaron J., **Boehm U.**, Chew T.-L. and Galbraith C., *Resolving the 3D Nano-architecture of the Actin Cytoskeleton*. Microscopy and Microanalysis, p1 (2020). DOI:10.1017/S1431927620016736
9. Brown-Harding H., Cordelieres F., Poujol C., **Boehm U.**, Collinson L., *A 'lockdown post' from facility managers across the world*. FocalPlane, p1 (2020). DOI:10.1242/focalplane.1244
8. **Boehm U.**, Hell S.W., Schmidt, R., *4Pi-RESOLFT nanoscopy*. Nature Comm. 7 (10504), p1-8 (2016). DOI:10.1038/ncomms10504
7. **Boehm U.**, *4Pi-RESOLFT nanoscopy*. PhD Thesis, Heidelberg University (2016) DOI: 10.11588/HEIDOK.00020200
6. **Boehm U.**, Schmidt R., Hell S.W., *Live-cell 4pi nanoscopy*. European Biophysics Journal with Biophysics Letters 2015 Jul 1 (Vol. 44, pp. S75-S75). 233 SPRING ST, NEW YORK, NY 10013 USA: SPRINGER.

5. Ullal C.K., Primpke S., Schmidt R., **Boehm, U.**, Egner A., Vana P, Hell S.W., *Flexible Microdomain Specific Staining of Block Copolymers for 3D Optical Nanoscopy*. Macromolecules, 44, p7508–7510 (2011). DOI: 10.1021/ma201504f
4. Ullal C., Schmidt R., **Boehm U.**, Primpke S., Vana P, Hell W.S., *STED Microscopy as a Characterization Tool for Three Dimensionally Nanostructured Block Copolymer Thin Films*. APS. 2011 Mar;2011:A43-002.
3. Rigort A., Bäuerlein F.J., Leis A., Gruska M., Hoffmann C., Laugks T., **Boehm U.**, Eibauer M., Gnaegi H., Baumeister W. and Plitzko J.M., *Micromachining tools and correlative approaches for cellular cryo-electron tomography*. J. Struct. Biol. 172, p169–179 (2010). DOI:10.1016/j.jsb.2010.02.011
2. Rigort A., Mathisen C., **Boehm U.**, Leis A., Lich B., Hayles M., Laugks T., Baumeister W. and Plitzko J.M., *Integrative Cryo-Correlative Microscopy Approaches*. Microscopy and Microanalysis. Vol 16(S2), p186–187 (2010). DOI:10.1017/S1431927610058216
1. **Boehm U.**, *Korrelative Mikroskopie bei Flüssigstickstoff-Temperatur*. Diploma Thesis, Technical University of Munich (2010)

* These authors contributed equally to this work

PEER REVIEW

Angewandte Chemie (International ed.)
Biophysical Journal
Biophysical Reports
Frontiers in Bioinformatics
Journal of Cell Science
Journal of Microscopy
Nature Methods
Review Commons
STAR Protocols

PRESENTATIONS

7th Max Planck Symposium for Alumni and Early Career Researchers <i>(invited)</i>	2022
Harnack House, Berlin, Germany	
5th Annual Postdoc Symposium <i>(invited)</i>	2022
Yale University, New Haven, CN, United States of America	
Chan Zuckerberg Initiative (CZI) Imaging 2022 Annual Meeting <i>(invited)</i>	2022
San Francisco, CA, United States of America	
Second Joint Meeting of the Irish Microscopy Society and the Scottish Microscopy Society <i>(invited)</i>	2022
National University of Ireland Galway, Galway, Ireland	
Advanced Imaging Methods Workshop 2022 <i>(invited)</i>	2022
UC Berkeley, Berkeley, CA, United States of America	
Chromatin Imaging/Nuclear Architecture SubGroup <i>(invited)</i>	2021
Harvard & MIT, Boston, MA, United States of America	
Janelia Advisory Committee Meeting	2021
Better Science through Open Science and Collaborative Teams <i>(invited)</i>	
Janelia Research Campus, Ashburn, VA, United States of America	

Junior Scientist Workshop on Biological Optical Microscopy <i>(invited)</i> Janelia Research Campus, Ashburn, VA, United States of America	2019
Transcription Seminar <i>(invited)</i> Albert Einstein College of Medicine, New York, NY, United States of America	2019
Microscopy Seminar <i>(invited)</i> Harvard Medical School, Boston, MA, United States of America	2019
Microscopy Lunch Seminar <i>(invited)</i> UMass Medical School, Worcester, MA, United States of America	2019
Single Biomolecules Meeting Cold Spring Harbor Laboratory, Cold Spring Harbor, NY, United States of America	2018
NIH Light Microscopy Interest Group Seminar <i>(invited)</i> NIH, Bethesda, MD, United States of America	2018
Chan Zuckerberg Initiative (CZI) Imaging Workshop <i>(invited)</i> CZ Biohub, San Francisco, CA, United States of America	2017
Chesapeake Bay Area Single Molecule Biology Meeting Johns Hopkins University, Baltimore, MD, United States of America	2017
Frontiers in Imaging Science Conference Janelia Research Campus, Ashburn, VA, United States of America	2017
Single Molecule Biophysics Conference Aspen Center for Physics, Aspen, CO, United States of America	2017
Labeling and Nanoscopy Conference DKFZ, Heidelberg, Germany	2016
MPIbpc Campus Seminar <i>(invited)</i> Max Planck Institute for Biophysical Chemistry, Göttingen, Germany	2016
NCI Departmental Seminar <i>(invited)</i> NIH, Bethesda, MD, United States of America	2016
Departmental Seminar <i>(invited)</i> Wyss Institute at Harvard University, Boston, MA, United States of America	2016
Lunch Talk <i>(invited)</i> Harvard University, Cambridge, MA, United States of America	2016
Biophysical Society Annual Meeting Los Angeles, CA, United States of America	2016
Seeing Is Believing Symposium EMBL, Heidelberg, Germany	2015
Deutsche Physikerinnen Tagung <i>(invited)</i> University of Göttingen, Göttingen, Germany	2015
Annual meeting of the European Light Microscopy Initiative (ELMI) Sitges, Spain	2015
Focus on Microscopy (FOM) Göttingen, Germany	2015
PROSPECTS. First Plenary Meeting Punta Negra, Majorca/Spain	2010

TEACHING

"Widening the Lens" Program - Fall Semester (virtual workshop) Lecturer, Vanderbilt University School of Engineering Nashville, TN, United States of America	2022
7th Max Planck Symposium for Alumni and Early Career Researchers Lecturer, Max Planck Society Berlin, Germany	2022
"Women in Imaging" Bootcamp (virtual workshop) Lecturer, University of California, Berkeley Berkeley, CA, United States of America	2022
"Widening the Lens" Program - Spring Semester (virtual workshop) Lecturer, Vanderbilt University School of Engineering Nashville, TN, United States of America	2022
NIH FAES Imaging - From IF & FISH to Automated & Confocal Microscopy (virtual workshop), Instructor of the Image Analysis Bootcamp, National Institutes of Health, Bethesda, United States of America	2021
Fiji Image Processing and Analysis Workshop (virtual workshop) Instructor of the Superresolution Data Handling Module, Turku Bioscience Centre, Turku, Finland	2021
NIH FAES Super Resolution Workshop (virtual workshop) Instructor, Foundation for Advanced Education in the Sciences (FAES) Bethesda, United States of America	2021 - 2022
Fiji Macros Programming (virtual workshop) Instructor, Janelia Research Campus, Ashburn, United States of America	2020
DECODE for Single Molecule Localization Microscopy (virtual workshop) at the <i>From Image to Knowledge with ImageJ & Friends</i> conference Instructor, Janelia Research Campus, Ashburn, United States of America	2020
NIH FAES Image Processing and Analysis workshop (virtual workshop) Instructor, National Institutes of Health, Bethesda, United States of America	2019 - 2021
Open Science in Imaging and Microscopy (breakout session during a workshop) Instructor, Janelia Research Campus, Ashburn, United States of America	2019
Advanced Imaging Techniques in Biomedical Sciences (summer intern journal club) Instructor, National Institutes of Health, Bethesda, United States of America	2018
Introduction to microscopy (graduate course) Teaching assistant, University of Massachusetts Medical School, Worcester, United States of America	2017
Optical Microscopy & Imaging in the Biomedical Sciences (summer intern journal club) Instructor, National Institutes of Health, Bethesda, United States of America	2017
Advanced physics laboratory course for physics students (undergraduate course) Teaching assistant, Heidelberg University, Germany	2011
Experimental Physics III: Optics (undergraduate course) Teaching assistant, University of Göttingen, Germany	2011
Experimental Physics IV: Quantum, atomic and molecular physics (undergraduate course), Teaching assistant, University of Göttingen, Germany	2010
Theoretical Physics I: Theoretical Mechanics (undergraduate course) Teaching assistant, Technical University of Munich, Germany	2009
Theoretical Physics II: Electrodynamics (undergraduate course) Teaching assistant, Technical University of Munich, Germany	2008

MENTORING	Mentoring of Ph.D. and master's students	2022 - present
	Focus: Navigating an industry career, how to work in an optics laboratory & in-depth support of individual research projects Carl Zeiss AG, Oberkochen, Germany	
	Janelia Buddy Program for international scientists	2020 - 2021
	Focus: Facilitating the transition of international scientists to Janelia in partnership with Janelia's Human Resource Department Janelia Research Campus, Ashburn, United States of America	
	Mentoring of postbac students	2020 - 2021
	Focus: Navigating a scientific career Janelia Research Campus, Ashburn, United States of America	
CONFERENCE ORGANIZATION	Mentoring of Ph.D., college, and high school students	2017 - 2018
	Focus: Navigating a scientific career, how to work in an optics laboratory & in-depth support with individual research projects National Institutes of Health, Bethesda, United States of America	
	Mentoring of Ph.D. and Master's students	2010 - 2016
	Focus: Navigating a scientific career, how to work in an optics laboratory & in-depth support of individual research projects Max Planck Institute for Biophysical Chemistry, Göttingen, Germany	
	iCademy (onboarding event for corporate research and technology (CRT)), Organizer	2022
	Carl Zeiss AG, Oberkochen, Germany	
	Advanced Imaging Methods Workshop 2022 , Organizer	2022
	UC Berkeley, Berkeley, CA, United States of America	
	OIG-ABG Educational Lectures , Organizer	2021 - 2022
	Ashburn, VA, United States of America	
	Janelia+EMBL BioImaging Seminar Series , Organizer & advisor	2020 - present
	Ashburn, VA, United States of America	
	Optical Interest Group (OIG) , Organizer	2020 - 2022
	Ashburn, VA, United States of America	
	Imaging Africa Microscopy Club , Organizer	2020
	Ashburn, VA, United States of America	
	Frontiers in Imaging Science Conference , Organizer	2019
	Ashburn, VA, United States of America	
	Labeling and Nanoscopy Conference 2018 , Website and social media support	2018
	Heidelberg, Germany	
	International Opportunities EXPO , Organizer	2018
	National Institutes of Health, Bethesda, MD, United States of America	
	Division of International Services Immigration Symposium , Organizer	2017 - 2018
	National Institutes of Health, Bethesda, MD, United States of America	
	I, Scientist Conference , Organizer	2017
	Berlin, Germany	
	Labeling and Nanoscopy Conference 2016 , Organizer	2016
	Heidelberg, Germany	
	Focus on Microscopy (FOM) , Social media support	2015 - 2019
	PhDnet General Meeting , Organizer	2011
	Bonn, Germany	

PROFESSIONAL SERVICES	BioImaging North America (BINA) , Committee member of the "Diversity, Equity & Inclusion" working group Madison, Wisconsin, United States of America	2022 - present
	Global BioImaging , Committee member of the "Training Core Facility Imaging Scientists" working group Heidelberg, Germany	2021 - present
	Wiley Analytical Science Magazine , Editorial board member Weinheim, Germany	2021 - present
	CZI Expanding Global Access to Bioimaging , Grant reviewer San Francisco, United States of America	2021
	QUAREP-LiMi , Chair of the "White Paper" working group Freiburg, Germany	2020 - present
	Frontiers in Bioinformatics , Review Editor for Computational BioImaging Lausanne, Switzerland	2020 - present
	CZI Imaging Scientists Round 2 , Grant reviewer San Francisco, United States of America	2020
	QUAREP-LiMi , Vice-chair of the "Image Quality" working group Freiburg, Germany	2020 - present
	German BioImaging , Committee member of the working groups for (1) Training and Knowledge Transfer and (2) Image Data Analysis & Management Konstanz, Germany	2020 - present
	BioImaging North America (BINA) , Committee member of the "Quality Control and Data Management" working group Madison, Wisconsin, United States of America	2020 - present
	Janelia's Optical Interest Group , Coordinator & advisor Ashburn, Virginia, United States of America	2020 - present
	GSO German Scholars Organization e.V. , Coordinator for Local Chapter of German Scientists, Ashburn	2020 - 2021
	Accelerating Science and Publication in Biology (ASAPbio) , Ambassador	2018 - 2019
	eLife Early-Career Advisory Group , Ambassador	2017 - 2019
	NIH Laser Safety Advisory Committee , Committee member for the NCI National Institutes of Health, Bethesda, United States of America	2018
	NIH Visiting Fellows Committee , Chair National Institutes of Health, Bethesda, United States of America	2017 - 2018
	NIH Light Microscopy Interest Group , Coordinator & advisor National Institutes of Health, Bethesda, United States of America	2016 - 2021
	DPG Arbeitskreis für Challengengleichheit , Board member & deputy spokesperson, Bad Honnef, Germany	2016 - present
	Lindau Nobel Laureate Meeting , Freelance writer Lindau, Germany	2016 - present
	66th Lindau Nobel Laureate Meeting , "Women in Science"-correspondent Lindau, Germany	2016
	Lise Meitner Gesellschaft e.V. , Co-founder and board member Berlin, Germany	2011
	Max Planck PhDnet , Steering group 2011 member & deputy spokesperson Max Planck Society, Munich, Germany	2011

CERTIFICATES &
TRAINING

HBS Disruptive Strategy	2022
Disruptive Strategy is a 6-week, 30-hour online certificate program from Harvard Business School Online. It helps students become fluent in disruption theory and gain confidence in articulating complex viewpoints, apply strategic frameworks to assess new opportunities and potential threats, and acquire techniques for executive-level strategy formulation and team management.	
Fundamentals of Statistics	2021
An 18-week in-depth introduction course by MITx to develop and understand fundamental statistical principles on firm mathematical grounds starting from the construction of estimators and tests, as well as an analysis of their asymptotic performance.	
Leadership Principles for Scientists, Engineers, and Researchers	2021
A four-month and four-course online program from MIT that empowers engineers, scientists, and researchers with the leadership insight needed to solve problems, innovate, and drive change.	
Machine Learning with Python: from Linear Models to Deep Learning	2021
A 15-week in-depth introduction course by MITx to the field of machine learning, from linear models to deep learning and reinforcement learning, through hands-on Python projects.	
Data Analysis for Social Scientists	2020
An 11-week course by MITx to learn methods for harnessing and analyzing data to answer questions of cultural, social, economic, and policy interest.	
Probability - The Science of Uncertainty and Data	2020
A 16-week course by MITx to build foundational knowledge of data science with an introduction to probabilistic models, including random processes and the essential elements of statistical inference.	
Fierce Conversations program	2020
A 6-week course offered by Howard Hughes Medical Institute about Feedback, Confrontation, Team, Delegation, Coaching, and Accountability.	
LabVIEW Core 2	2020
A certificate course offered by National Instruments about the LabVIEW basics.	
LabVIEW Core 1	2020
A certificate course offered by National Instruments about the LabVIEW basics.	
HBS Entrepreneurship Essentials	2020
Entrepreneurship Essentials is a 4-week, 30-hour online certificate program from Harvard Business School. Entrepreneurship Essentials introduces participants to the entrepreneurial journey from finding an idea to gaining traction in the marketplace to raising capital for a venture. Participants learn an overarching framework - People, Opportunity, Context, Deal - to evaluate opportunities to manage start-ups and finance ventures.	
HBS Management Essentials	2019
Management Essentials is an 8-week, 35-hour online certificate program from Harvard Business School. Management Essentials takes a distinctive, hands-on approach to management. Participants in this course learn to identify, understand, design, and shape critical organizational and managerial processes to get the work done.	
HBS CORE (Credential of Readiness)	2019
CORE (Credential of Readiness) is a 150-hour certificate program on business fundamentals from Harvard Business School. The CORE is comprised of three courses - Business	

Analytics, Economics for Managers, and Financial Accounting - developed by leading Harvard Business School faculty and delivered in an active learning environment based on the HBS signature case-based learning model.

Scientists Teaching Science	2018
at the Office of Intramural Training and Education (OITE) at the National Institutes of Health, Bethesda, United States of America (9-week online pedagogy course)	
Research Mentor Training	2018
at the Office of Intramural Training and Education (OITE) at the National Institutes of Health, Bethesda, United States of America	
Business of Science for Scientists	2018
by SciPhD at the National Cancer Institute in Shady Grove, United States of America	
Chromatin, Epigenetics and Gene Expression Course	2018
at the Cold Spring Harbor Laboratory (CSHL) in Cold Spring Harbor, NY, United States of America, Course instructors: Prof Karen Adelman, Dr Luciano Di Croce, Prof Geeta Narlikar, Prof Ali Shilatifard	
BioTech2: Recombinant DNA Methodology	2017
at the Foundation for Advanced Education in the Sciences at the NIH (FAES), Bethesda, United States of America	
Management Bootcamp for Postdocs	2017
at the Office of Intramural Training and Education (OITE) at the National Institutes of Health, Bethesda, United States of America	
Ethics in Research Training for Postdocs	2017
at the Office of Intramural Training and Education (OITE) at the National Institutes of Health, Bethesda, United States of America	
Workplace Dynamic Series	2016
about Self-Awareness, Conflict & Feedback, Team Skills, Diversity In A Multicultural Society at the Office of Intramural Training and Education (OITE) at the National Institutes of Health, Bethesda, United States of America	

COMPUTER SKILLS	Languages: Python, MATLAB, LabVIEW, R Software: Inventor (CAD), Zemax, Imaris, Fiji, ImageJ
PROFESSIONAL AFFILIATION	American Physical Society, German Physical Society, BioImaging North America (BINA), German BioImaging Society (GerBI), Network of European BioImage Analyst (NEUBIAS), Quantitative BioImaging Society, Deutsche Gesellschaft für angewandte Optik (DGaO)
LANGUAGES	German - native language English - fluent, spoken and written French - basic knowledge Swedish - basic knowledge
REFERENCES	Available upon request

Last updated December 30, 2022.