

## Effie Efthimia Bastounis, MEng, PhD

Eberhard Karls University & University Hospital Tübingen  
 Interfaculty Institute for Microbiology & Infection Medicine  
 Controlling Microbes to Fight Infection EXC 2124  
 Auf der Morgenstelle 28/E8  
 72076 Tübingen, Germany

email: [effie.bastounis@uni-tuebingen.de](mailto:effie.bastounis@uni-tuebingen.de)  
 website: [www.bastounislab.org](http://www.bastounislab.org)  
 social media: [@EBastounis \(Twitter\)](https://twitter.com/EBastounis)  
 ORCID: 0000-0003-3656-7888  
 phone: +49 1522 6369751

### PROFILE

I am a bioengineer with expertise in single and collective cell biomechanics and in host cell-pathogen interactions. I use interdisciplinary approaches integrating engineering, microscopy and cell biology to understand basic cell mechanobiology and biomechanics of host-pathogen interactions.

### EDUCATION

University of California San Diego, <i>M.Sc. and Ph.D. in Bioengineering</i>	2012
National Technical University of Athens, <i>B.S./M.Eng. in Electrical &amp; Computer Engineering</i>	2006

### RESEARCH AND PROFESSIONAL EXPERIENCE

<b>Junior Group Leader</b> Head of "Infection Biomechanics" group Cluster of Excellence: "Controlling Microbes to Fight Infections" (EXC 2124), Interfaculty Institute of Microbiology & Infection Medicine, University of Tübingen, Germany	2021-present
<b>Research Scientist Engineer III</b> (faculty) Biology Dpt, University of Washington, USA	2018-2021
<b>Visiting Scientific Scholar</b> Institute for Stem Cell Biology & Regenerative Medicine (I. Weissman WG), Stanford University School of Medicine, USA	2018-2021
<b>Postdoctoral Fellow</b> Biochemistry Dpt (J. Theriot WG), Stanford University School of Medicine, USA	2015-2018
<b>Postdoctoral Scientist</b> Division of Cell and Developmental Biology (R. Firtel WG), University of California San Diego, USA	2012-2014
<b>Graduate Student Researcher</b> Bioengineering Dpt (J. Lasheras and S. Chien WGs) University of California San Diego, USA	2007-2012
<b>Research Assistant</b> Mechanical Engineering Dpt (J. Georgiadis WG) University of Illinois at Urbana-Champaign, USA	2006-2007
<b>Undergraduate Student Researcher</b> Electrical & Computer Engineering Dpt (K. Nikita WG) National Technical University of Athens, Greece	2005-2006

### FELLOWSHIPS OR OTHER EXTERNAL FUNDING

Deutsche Forschungsgemeinschaft (German Research Foundation) individual

research grant for funding a three-year PhD project, (PI, € 211,495)	2024-2027
Biophysical Society (BPS) thematic meeting grant (PIs: Effie Bastounis, Alexander Persat, Daria Bonazzi, Total : € 10,000)	2023
Deutsche Forschungsgemeinschaft major instrumentation grant (DFG 91B) for a spinning disk confocal microscope (PIs: Effie Bastounis, Alex Weber, Samuel Wagner, Heike Brötz-Oesterhelt, Peter Loskill, Total : € 509,082, funded 50% by DFG and 50% by Universitätsklinikum Tübingen)	2023
Collaborative research grant funded by the Cluster of Excellence: "Controlling Microbes to Fight Infections" (CMFI, EXC 2124), University of Tübingen (PIs: Lars Angenent, Effie Bastounis, Simone Heilbronner, Hannes Link, Daniel Petras, Total : € 419,400)	2022-2025
Deutsche Forschungsgemeinschaft individual research grant for funding a three-year PhD project, (PI, € 237,950)	2022-2024
Collaborative research grant funded by CMFI, EXC 2124, University of Tübingen (PIs: Samuel Wagner, Boris Macek & Effie Bastounis, Total : € 387,810)	2021-2024
Collaborative research grant funded CMFI, EXC 2124, University of Tübingen (PIs: Effie Bastounis & Peter Loskill, Total : € 360,000)	2021-2025
Start-up group leader funds awarded by CMFI, EXC 2124, Interfaculty Institute of Microbiology and Infection Medicine, University of Tübingen (PI, € 1,141,546)	2021-2027
Hellenic Foundation for Research and Innovation Grant (PI: €180,000, renounced)	2021-2023
Volkswagenstiftung Grant (co-Applicant, Total : €514,200)	2020-2023
Lyme Disease Association Research Grant Award (PI, \$80,000)	2019-2020
American Heart Association Career Advancement Award (PI, \$250,000)	2018-2021
Stanford Lyme Working Group Lyme Disease Seed Grant (PI, \$10,000)	2017-2018
American Heart Association Postdoctoral Fellowship Award (\$150,000)	2017-2018
NHLBI (NIH) Training Grant on Integrative Bioengineering of Heart, Vessels and Blood	2011-2012
Howard Hughes Medical Institute Med into Grad Training Grant	2011

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## HONORS AND AWARDS

Elected International Fellow of the American Heart Association (FAHA) conferred by the Council on Arteriosclerosis, Thrombosis and Vascular Biology (ATVB)	2023
American Society of Cell Biology/ European Molecular Biology Organization Travel Award	2022
Marie Skłodowska-Curie Seal of Excellence for the proposal BioMech-RA submitted under the Horizon 2020's Marie Skłodowska-Curie actions call H2020-MSCA-IF-2018	2019
Marie Skłodowska-Curie Seal of Excellence for the proposal BioMech-RA submitted under the Horizon 2020's Marie Skłodowska-Curie actions call H2020-MSCA-IF-2017	2018
Helena Anna Henzl-Gabor Young Women in Science Travel Grant	2018
ASCB/EMBO Mentoring Academy Travel Award	2017
EMBL Corporate Partnership Programme Travel Grant	2017

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## JOURNAL PUBLICATIONS (name underlined when Corresponding author)

1. Caspi Tal M, Hansen P\*, Volk RF\*, Ramadoss NS\*, **Bastounis EE\***, Shoham M, Galloway SD, Torrez Dulgeroff LB, Yiu YY, Markovic M, Brewer RE, Naik TJ, Colace O, Ross JB, Salomon RE, Raveendra Pothineni V, Potula HSK, Blacker GS, Rajadas J, Raveh T, Coburn J, Robinson W, Zaro BW,

- Weissman IL. P66 is a bacterial “don’t eat me signal” that mimics mammalian CD47 and facilitates immune evasion by *Borrelia burgdorferi*. *In preparation*. \*Equally contributing co-second authors.
2. Jaworski D., Hundsdorfer L., **Bastounis EE\***, Constantinou I\*, Cell stretching device to stretch cells in different directions combined with live cell imaging and subsequent quantitative characterization of cellular motility. *In preparation*. \*co-Corresponding authors.
  3. Lebtig M, Sheurer J, Muenkel M, Becker J, Schittek B, **Bastounis EE**, Peschel A, Kretschmer D. (2023) Keratinocytes use the FPR2 to detect *Staphylococcus aureus* and initiate antimicrobial skin defense. **Frontiers in Immunology**, 14.
  4. Kutluk H, **Bastounis EE**, Constantinou I. (2023) Integration of extracellular matrices into organ-on-chip systems. **Advanced Healthcare Materials**, 2203256.
  5. Constantinou I\*, **Bastounis EE\*** (2023) Live-cell imaging during cyclic stretching: engineering considerations and biomedical appeal. **Trends in Biotechnology**, 41, 939-950. \*Equally contributing co-first authors.
  6. Jahanbani S, Hansen P, Blum L, **Bastounis EE**, Ramadoss N, Pandrala M, Kirschmann J, Blacker G, Love Z, Weissman I, Nemati F, Caspi Tal M, Robinson W (2023) Increased macrophage phagocytic activity with TLR9 agonist conjugation of an anti-*Borrelia burgdorferi* monoclonal antibody. **Clinical Immunology**, 109180.
  7. Muenkel M, Aparicio-Yuste, R, Caspi Tal, M, Kraiczky P, **Bastounis EE** (2022) Spatiotemporal characterization of endothelial cell motility and physical forces during exposure to *Borrelia burgdorferi*. **STAR Protocols** 3, 101832.
  8. Aparicio-Yuste R, Serrano-Alcalde F, Muenkel M, Gómez-Benito M, Garcia-Aznar J, **Bastounis EE**, Gómez-Benito M (2022) Computational modelling of epithelial cell monolayers during bacterial infection: application to *Listeria monocytogenes*. **Computer Methods in Applied Mechanics and Engineering**, 115477.
  9. Aparicio-Yuste R, Muenkel M, Clark A, Gómez-Benito M, **Bastounis EE** (2022) A stiff extracellular matrix favors the mechanical cell competition that leads to extrusion of bacterially-infected epithelial cells. **Frontiers in Cell and Developmental Biology**, 10.
  10. Aparicio-Yuste R, Muenkel M, Axarlis K, Reuss A, Gómez-Benito M, Blacker G, Caspi Tal M, Kraiczky P, **Bastounis EE** (2022) *Borrelia burgdorferi* modulates the physical forces and immunity signaling in endothelial cells. **iScience** 25, 104793.
  11. **Bastounis EE\***, Rhadhakrishnan P, Prinz C, Theriot JA\*. (2022) Mechanical forces govern interactions of host cells with bacterial pathogens. **Microbiology and Molecular Biology Reviews** e0009420. 10.1128/membr.00094-20. \*co-Corresponding authors.
  12. **Bastounis EE\***, Rhadhakrishnan P, Prinz C, Theriot JA\* (2021) Volume measurement and biophysical characterization of mounds in epithelial monolayers after intracellular bacterial infection. **STAR Protocols** 2 (2): 100551. \*co-Corresponding authors.
  13. **Bastounis EE**, Serrano-Alcalde F, Rhadhakrishnan P, Engström P, Gómez-Benito M, Oswald M, Yeh YT, Smith J, Welch M, Garcia-Aznar M, Theriot JA (2021) Mechanical competition triggered by innate immune signaling drives the collective extrusion of bacterially-infected epithelial cells. **Developmental Cell** 56: 443-460.e411.
  14. **Bastounis EE**, Yeh YT, Theriot JA (2019) Subendothelial stiffness alters endothelial cell traction force generation while exerting a minimal effect on the transcriptome. **Scientific Reports** 9(1): 18209.
  15. Faralla C\*, **Bastounis EE\***, Ortega F, Light S, Rizzuto G, Nocadello S, Anderson WF, Robbins JR, Robbins J, Theriot JA, Bakardjiev A (2018) *Listeria monocytogenes* InlP interacts with afadin and facilitates basement membrane crossing. **PLoS Pathogens** 14(5):e1007094. \*Equally contributing co-first authors.

16. **Bastounis EE**, Yeh YT, Theriot JA (2018) Matrix stiffness modulates infection of endothelial cells by *L. monocytogenes* via expression of cell surface vimentin. **Molecular Biology of the Cell** 29(13):1571-1589.
17. **Bastounis EE**, Ortega F, Serrano R, Theriot JA (2018) A multi-well format polyacrylamide-based assay for studying the role of extracellular matrix stiffness on the bacterial infection of adherent cells. **Journal of Visualized Experiments** 137:e57361.
18. Copos CA, Guy RD, Walcott S, **Bastounis EE**, del Álamo JC, Mogilner A (2017) Mechanosensitive adhesion explains stepping motility in amoeboid cells. **Biophysical Journal** 112(12):2672-2682. \*Article discussed in "New and Notable" for the issue of June 20, 2017 in Biophysical Journal.
19. Lamason RL, **Bastounis EE**, Kafai NM, Serrano R, del Álamo JC, Theriot JA, Welch MD (2016) The *Rickettsia* effector Sca4 promotes cell-to-cell spread by reducing vinculin-mediated intercellular tension. **Cell** 167(3):670-683.
20. **Bastounis EE**, Álvarez-González B, del Álamo JC, Firtel R, Lasheras JC (2016) Cooperative cell motility during tandem locomotion of amoeboid cells. **Molecular Biology of the Cell** 27: 1262-1271.
21. Álvarez-González B, Meili R, **Bastounis EE**, Firtel R, Lasheras JC, del Álamo JC (2015) Three-dimensional balance of cortical tension and axial contractility enables fast amoeboid migration. **Biophysical Journal** 108:821-832. \*Article selected among New and Notable for issue of February 17, 2015 in Biophysical Journal.
22. **Bastounis EE**, Meili R, Álvarez-González B, Francois J, del Álamo JC, Firtel R, Lasheras JC (2014) Both contractile axial and lateral traction force dynamics drive amoeboid cell motility. **Journal of Cell Biology** 204:1045-1061. \*Cover image selected for the issue of March 17, 2014 and article selected among highlights in Journal of Cell Biology.
23. Álvarez-González B, **Bastounis EE**, Meili R, del Álamo JC, Firtel R, Lasheras JC (2014) Cytoskeletal mechanics regulating amoeboid cell locomotion. **Applied Mechanics Reviews** 66, 050804-050804.
24. del Álamo JC, Meili R, Álvarez-González B, Alonso-Latorre B, **Bastounis EE**, Meili R, Firtel R, Lasheras JC (2013) Three-dimensional quantification of cellular traction forces and mechanosensing of thin substrata by fourier traction force microscopy. **PLoS ONE** 8:e69850.
25. Tsekouras NS, Katsargyris A, Skrapari I, **Bastounis EE**, Georgopoulos S, Klonaris C, Bakoyiannis C, Tsekouras E (2012). Alterations of baroreflex sensitivity after carotid endarterectomy according to the preoperative carotid plaque echogenicity. **Journal of Vascular Surgery** 56(6): 1591-7.
26. **Bastounis EE**, Meili R, Alonso-Latorre B, del Álamo JC, Firtel R, Lasheras JC (2011) The Scar/WAVE complex is necessary for proper regulation of traction stresses during amoeboid motility. **Molecular Biology of the Cell** 21:3995–4003. \*Cover image selected for the issue of October 15, 2011 and article selected among highlights in Molecular Biology of the Cell.
27. Lasheras JC, Alonso-Latorre B, **Bastounis EE**, del Álamo JC, Meili E, Firtel R (2011) Distribution of traction forces and intracellular markers associated with shape changes during amoeboid cell migration. **International Journal of Transport Phenomena** 12: 3-12.
28. Tsekouras NS, Katsargyris A, Skrapari I, **Bastounis EE**, Georgopoulos S, Klonaris C, Bakoyiannis CN, Bastounis EA (2011) The role of carotid plaque echogenicity in baroreflex sensitivity. **Journal of Vascular Surgery** 54: 93-99.
29. Bakoyiannis CN, Tsekouras NS, Georgopoulos S, Klonaris C, **Bastounis EE**, Filis K, Papalambros E, Bastounis EA (2011) ICU transfer after elective abdominal aortic aneurysm repair can be successfully reduced with a modified protocol. A fourteen year experience from a University hospital." **International Angiology** 30: 43-55.
30. Bastounis EA, Bakoyiannis C, Cagiannos C, Klonaris C, Filis K, **Bastounis EE**, Georgopoulos S (2007) A Short incision for carotid endarterectomy results in decreased morbidity. **European Journal of Vascular and Endovascular Surgery** 33:652-656.

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**PATENTS**

1. Tal M, Weissman IL, Torrez Dulgeroff L, **Bastounis EE**, Matthaiou EI, Hsu J, Markovic M, Shoham M., Wood Zaro B, Raveh T. Methods of treating infections by blocking pathogen mimics of cd47. Patent number: US20220235131A1, Issued date of publication: 2022-07-28.
2. Constantinou I\*, **Bastounis EE\***, Jaworski D\*, Metz D, Hundsdorfer L. Multimodal in vitro cell stretching device for live-cell imaging. *TU Braunschweig & University of Tübingen registered invention for a patent, Submitted* \* Equal contributions

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**CONFERENCE PUBLICATIONS**

1. **Bastounis EE**, Theriot JA (2016) A highly quantitative multi-well format assay for studying the effect of extracellular matrix mechanics on the bacterial infection of endothelial cells. **Athens Journal of Sciences** 4(1):7-20.
2. Alonso-Latorre B, Meili R, del Álamo JC, **Bastounis EE**, Firtel R, Lasheras JC (2009) Distribution of traction forces associated with shape changes during amoeboid cell migration. **Conference Proceedings of IEEE Engineering in Medicine and Biology Society** 3346-3349.
3. Stoitsis J, Golemati S, **Bastounis EE**, Nikita KS (2007) A mathematical model of the mechanical deformation of the carotid artery wall and its application to clinical data. **Conference Proceedings of IEEE Engineering in Medicine and Biology Society** 2163-2166.
4. Stoitsis J, **Bastounis EE**, Karampinos DC, Bosshard JC, Lu J, Golemati S, Wright SM, Georgiadis JG, Nikita KS (2007) Velocity extraction from spin-tagging MRI images using a weighted least-squares optical flow method. **IEEE Imaging Systems and Techniques** 1-5.

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**SELECTED INVITED TALKS**

Biophysical Society Meeting 2024, Philadelphia, USA (Symposium Chair & Speaker)	2024
Cell Physics 2023, SFB 1027 and DGZ International Meeting, Saärbrücken, Germany	2023
Symposium: New horizons in precision medical imaging and therapy, Tuebingen, Germany	2022
Cell Press Webinar on understanding diseases and regeneration through live-cell imaging	2022
World Microbe Forum, co-organized by American Society of Microbiology (ASM) and Federation of European Microbiological Societies (FEMS) (virtual)	2021
IEEE Greek Chapter, ECE Dpt, NTUA, Athens, Greece	2021
EMBL/EBMO Symposium: Life at the Periphery, Heidelberg, Germany	2021
Physics of Living Matter-15 Symposium, Marseille, France	2020
Biophysical Society Meeting, San Diego, USA	2020
ASCB/EMBO Meeting, Washington D.C., USA	2019
International Symposium on Problems of <i>Listeria</i> and Listeriosis (ISOPOL), Toronto, Canada	2019
Co-sponsored CBE & ME Faculty Seminar Series, UC Santa Barbara, CA, USA	2019
BSRC Alexander Fleming Institute, Athens, Greece	2018
Dpt of Microbiology and Immunology Seminar Series, Stanford, CA, USA	2017
Stanford Microbiology and Immunology Annual Research Conference, Santa Cruz, CA, USA	2017
ASCB Meeting, San Francisco, CA, USA	2016
Dpt of Mechanical Engineering, Biomechanics Seminar Series, UC San Diego, CA	2016
Annual Bay Area Microbial Pathogenesis Symposium, San Francisco, CA	2016

NSF sponsored Quantitative Cell Biology Workshop, Half Moon Bay, CA	2016
Stanford Center for Systems Biology Weekly Lunch Meeting, Stanford, CA	2015
Annual UC Systemwide Bioengineering Symposium, UC Berkeley, CA	2012

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## TEACHING

<b>Instructor</b> , EUROoCS (European Organ-on-Chip Society) Summer School 2023, Image analysis workshop ( <a href="https://euroocs.eu/euroocs-summerschool/">https://euroocs.eu/euroocs-summerschool/</a> ), Tübingen, Germany	2023
<b>co-Instructor</b> , Bio-4150: <i>Light Microscopy</i> offered to students in MSc Biology, Major: “Molecular Cell Biology & Immunology”, University of Tübingen, Germany	2022-present
<b>Instructor</b> , <i>Life Sciences for Engineering</i> offered to MSc students in “Translational Engineering In Health & Medicine (TEAM, <a href="https://masterteam.ntua.gr">https://masterteam.ntua.gr</a> ), National Technical University of Athens, Greece	2022-present
<b>Instructor</b> , Bio-4074: <i>Image Processing &amp; Data Analysis for Cell Biology</i> offered to MSc students in Biology, Major: “Molecular Cell Biology & Immunology”, University of Tübingen, Germany	2022-present
<b>co-Instructor</b> , Bio-4076: <i>Advanced Concepts in Cell Biology</i> offered to students in MSc Biology, Major: “Molecular Cell Biology & Immunology”, University of Tübingen, Germany	2022-present
<b>co-Instructor</b> , <i>Mechanisms of Microbial Pathogenicity</i> offered to students in MSc Microbiology, University of Tübingen, Germany	2021-present
<b>Instructor</b> , 10-day workshop on <i>Traction Force Microscopy</i> . Allen Institute for Cell Science, Seattle, WA, USA	2017
<b>co-Instructor</b> , <i>Microscopy and Image Processing</i> , Biochemistry Dpt Annual Graduate Student Bootcamp, Stanford University School of Medicine, CA, USA	2015-2018
<b>co-Instructor</b> , MDE 209 - <i>Mechanical and Transport Processes for Biomedical Device Design</i> , Bioengineering Dpt, UC San Diego, CA, USA	2012-2014
<b>Teaching Assistant</b> , BENG 112A - <i>Biomechanics A</i> , BENG 112B - <i>Biomechanics B</i> , BENG 112C - <i>Biomechanics C</i> and BENG 209/MAE 209 - <i>Continuum mechanics applied into biology and medicine</i> . Bioengineering Dpt, UC San Diego, CA, USA	2008-2012

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## LIST OF PAST/CURRENT TRAINEES (alphabetical order)

### Konstantinos Axarlis

Erasmus+ Student, Interfaculty Institute of Microbiology and Infection Medicine, University of Tübingen, started September 2021-June 2022

Research topic: Bacterial spread from infected macrophages into endothelial cells

Support: Erasmus+ scholarship; CMFI, EXC 2124 (PI E. Bastounis)

### Eduardo Bras

Postdoc, Interfaculty Institute of Microbiology and Infection Medicine, University of Tübingen, started January 2023

Research topic: Heterotypic interactions of infected macrophages with endothelial cells on an endothelial-on-chip device

Support: CMFI collaborative research grant, EXC 2124 (PI E. Bastounis)

### Lara Hundsdorfer

PhD Student, Interfaculty Institute of Microbiology and Infection Medicine, University of Tübingen, started June 2022

Research topic: Deciphering host-pathogen interactions using an organotypic stretching device and biomechanical approaches

Support: DFG research grant (PI E. Bastounis)

#### **Erva Keskin**

MSc Student, Nanosciences Dpt, University of Tübingen, October 2022-March 2023

PhD Student, Interfaculty Institute of Microbiology and Infection Medicine, University of Tübingen, starting September 2023

Research topic: Heterotypic interactions of infected macrophages with endothelial cells

Support: CMFI, EXC 2124 (PI E. Bastounis)

#### **Marie Münkel**

PhD Student, Interfaculty Institute of Microbiology and Infection Medicine, University of Tübingen, started September 2021

Research topic: Diapedesis of infected macrophages through endothelial cells

Support: CMFI, EXC 2124 (PI E. Bastounis)

#### **Julio Sanchez-Rendon**

PhD Student, Interfaculty Institute of Microbiology and Infection Medicine, University of Tübingen, started June 2022

Research topic: Rheotaxis of endothelial cells exposed to shear flow

Support: CMFI, EXC 2124 (PI E. Bastounis)

#### **Annalena Reuss**

PhD Student, Interfaculty Institute of Microbiology and Infection Medicine, University of Tübingen, July 2021- August 2022

Research topic: Effects of bacterial infection on endothelial cells exposed to shear flow

Support: CMFI, EXC 2124 (PI E. Bastounis)

#### **Mai Wang**

PhD Student, Interfaculty Institute of Microbiology and Infection Medicine, University of Tübingen, started October 2022

Research topic: Effects of bacterial infection on endothelial cells exposed to shear flow

Support: CMFI, EXC 2124 (PI E. Bastounis)

#### **Raúl Aparicio-Yuste**

PhD Student, Mechanical Engineering, University of Zaragoza (jointly advised by E. Bastounis and M. Gomez-Benito), started January 2021

Research topic: Computational modeling of infection dissemination in epithelia

Support: Official doctoral grant from the Government of Aragón, Spain; 4-year FPU-2020 scholarship fellowship program from the Spanish Government, Ministry of Universities

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### **PROFESSIONAL MEMBERSHIP, SERVICE AND LEADERSHIP**

**Advisory board member** of scientific journals: STAR Protocols, Cell Press 2021-present

**Junior Editorial board member** of scientific journals: mBio, ASM 2021-present

**Organizer of scientific meeting:** BioMech-BW, a bi-annual symposium on cell and tissue biomechanics, Tübingen/Stuttgart, Germany 2021-present

**(co)-Chair in scientific meetings:** American Society of Cell Biology/European Molecular Biology Organization Annual Meeting; Biophysical Society Annual Meeting, Howard Hughes Medical Institute (HHMI) Annual Meeting; 2019-present

**Reviewer in grants and fellowship applications:** Swiss National Science Foundation (SNSF); USA National Science Foundation, NSF (panel reviewer); UK Research and Innovation- Biotechnology and Biological Sciences Research Council; Institut Pasteur, France 2019-present

**Professional service:** Judge in poster competitions in Biophysical Society Meeting;

Judge in poster competition in World Microbe Forum organized annually by the American Society of Microbiology and the Federation of European Microbiological Societies; Abstract reviewer American Society of Cell Biology annual meetings.	2019-present
<b>Reviewer in scientific journals:</b> Cell, Developmental Cell, Nature Communications, Nature Scientific Reports, Soft Matter, Cell Reports, Cell STAR Protocols, PLoS Computational Biology, mBio, PLoS One, Journal of Visualized Experiments, American Journal of Physiology –Cell Physiology, MDPI Nanomachines, MDPI Micromachines, Journal of Applied Physiology, Progress in Biophysics and Molecular Biology	2015-present
<b>Member</b> , Infect-Net " Association of German Women Infection Researchers"	2024-present
<b>Member</b> , Hellenic Graduate Student Association at Stanford University, CA, USA	2014-2018
<b>Member</b> , Mechanical Engineering Graduate Women’s group, UC San Diego, CA, USA	2013-2014
<b>Instructor/Volunteer</b> , Introduction to Microscopy, Johns Hopkins Center for Talented Youth, UC San Diego, USA	2013-2014
<b>Instructor/Volunteer</b> at Rady Children’s Hospital, San Diego, CA, USA	2012-2014
<b>Volunteer</b> in Salk Mobile Science Lab by participating in educational outreach activities in middle schools throughout the San Diego County, CA, USA	2012-2014
<b>Instructor</b> , “Annual SD Science Festival” Bioengineering team, UC San Diego, CA, USA	2011-2014
<b>Professional memberships:</b> American Society of Microbiology, American Heart Association, American Society of Cell Biology, Biophysical Society	2009-present

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## LINGUISTIC SKILLS

**English:** proficient, CPE (University of Cambridge ESOL Examinations), 1998

**Greek:** native speaker

**Spanish:** proficient, Superior (Diplomas de Español como Lengua Extranjera), 2006

**French:** proficient, D.E.L.F 1-6, D.A.L.F 1-4, Sorbonne 1

**German:** basic (A2.3 level)