Curriculum Vitae

Dr. Eloi Camprubi

eloicamprubi.com

ASTROBIOCHEMISTRY LAB
LIFE'S ORIGINS AND DISTRIBUTION

Professional experience
09/01/2022 - **present day:** University of Texas Rio Grande Valley (Texas, United States), Assistant Professor, School of Integrative Biological and Chemical Sciences.

10/01/2021 - **07/31/2022**: Earth-Life Science Institute – Tokyo Institute of Technology (Tokyo, Japan), Postdoctoral Fellow of the Human Frontiers Science Program (HFSP), Project: Geo-electrochemical synthesis of organosulfur compounds as the hub of proto-metabolism.

05/01/2018 - **09/15/2021**: Utrecht University – Origins Center (Utrecht, Netherlands), Postdoctoral Research Fellow of the Origins Center, Project: A high-pressure origins of life simulator.

01/02/2013 - **09/12/2013**: University of Roehampton (London, UK), Research Excellence Framework (2014) Manager.

Languages
English – Full proficiency Spanish – Native Catalan – Native

German – Beginner

Formal training
PhD in Chemistry, **12/28/2018**, University College London (UK), Dissertation: The beginnings of proto-metabolism at the origin of life in alkaline hydrothermal vents (Supervisors: Profs Nick Lane and John Ward)

Masters of Research (MRes) in Molecular Biophysics and Structural Biology, **09/21/2014**, University College London (UK), 1st class honors grade

Bachelor in Biochemistry, **09/19/2012**, Autonomous University of Barcelona (Spain), 87% grade. Awarded the extraordinary prize to the highest-achieving student.

Bachelor in Biology, **09/20/2011**, Autonomous University of Barcelona (Spain), 76% grade

Publications (h-index: 11, i10-index: 12, citations: 1230)
(under review) **Camprubi, E.**, Pearce, K. D. B., Preiner, M., The terrestrial abiotic synthesis of simple precursor molecules at the origin of life

(manuscript under rework) **Camprubi, E.**, Calma, K., Nan, J., Versluis, F., King, H., Plümper, O., Wolthers, M., ten Kate, I.L. A high-pressure microfluidics setup to study CO_2 reduction under Hadean Earth submarine hydrothermal conditions

(under review) Origin of Life Early-career Network (OoLEN), **Camprubi, E.** et al. What it takes to solve the Origins(s) of Life: An integrated review of techniques. (submitted; under review at *Cell Reports Physical Science* – Quartile 1 in Chemistry). Publicly accessible since August 2023 as an arXiv preprint (https://arxiv.org/abs/2308.11665) (citations 2)

2025 Babaei, S., Arabi, N., Shi, X., Huber, G. W., **Camprubi, E.**, Zhao, J. Sustainable production of low-calorie tagatose via CaO-promoted galactose isomerization with CO_2 neutralization under ambient conditions. *Industrial & Engineering Chemistry Research*, XXX https://doi.org/10.1021/acs.iecr.5c01664 Quartile 1 in Chemistry

2024 Johansen, A., **Camprubi, E.**, van Kooten, E., Hoeijmakers, H. J. Self-oxidation of the atmospheres of rocky planets with implications for the origin of life. *Astrobiology*, 24(9):856-880 Quartile 1 in Space and Planetary Sciences (citations: 6)

2023 Kopacz, N., Corazzi, M. A., Poggiali, G., von Essen, A., Kofman, V., Fornaro, T., van Ingen, H., **Camprubi, E.**, King H. E., Brucato, J. R., ten Kate, I. L. The photochemical evolution of polycyclic aromatic hydrocarbons and nontronite clay on early Earth and Mars. *Icarus*, 394(115437) Quartile 1-2 in Space and Planetary Science (citations: 13)

2022 Camprubi, E., Muchowska, K. B., ten Kate, I. L., Markovitch, O., Otto, S. Prebiotic Chemistry: From dust to molecules and beyond. Chapter 2 in *New Frontiers in Astrobiology*, Elsevier Cambridge, 19-47 (peer-reviewed book chapter) (citations: 2)

2022 Camprubi, E., Harrison, S. A., Jordan, S. F., Bonnel, J., Pinna, S., Lane, N. Do soluble phosphates direct the formose reaction towards pentose sugars? *Astrobiology*, 22(3):981-991 (citations: 17)

2022 Giese, C.C., ten Kate, I.L., van den Ende, M.P.A., Wolthers, M., Aponte, J., **Camprubi, E.**, Dworkin, J., Elsila, J.E., Hangx, S., King, H.E., Mclain, H.L., Plümper, P., Tielens, A.G.G.M. Experimental and theoretical constraints on amino acid formation from PAHs in asteroidal settings. *ACS Earth and Space Chemistry*, 6(3):468-481 (citations: 10)

2021 Živković, A., Somers, M., **Camprubi, E.**, King, H. E., Wolthers, M., de Leeuw, N. H. Changes in CO_2 adsorption affinity related to Ni doping in FeS surfaces: A DFT-D3 study. *Catalysts*, 11(486) (citations: 13)

2020 Preiner, M., Asche, S., Becker, S., Betts, H., Boniface, A., **Camprubi, E.**, Chandru, K., Erastova, V., Garg, S., Khawaja, N., Kostyrka, G., Machne, R., Moggioli, G., Muchowska, K. B., Neukirchen, S., Peter, B., Pichlhöfer, E., Radványi, A., Ring, C., Rossetto, D., Salditt, A., Schmelling, N. M., Sousa, F., Tria, F., Vörös, D., Xavier, J. C. The future of origin of life research: bridging decades-old divisions. *Life*, 10:3 (citations: 161)

2020 Taubner, R. S., Olsson-Francis, K., Vance, S., Antunes, A., Barge, L., Bollengier, O., Brown, M. J., **Camprubi, E.**, de Vera, J. P., Goodman, J., Hand, K., Jebbar, M., Journaux, B., Karatekin, Ö., Klenner, F., Noack, L., Postberg, F., Rabbow, E., Ramkinsson, N., Rettberg, P., Rückriemen-Bez, T., Sekine, Y., Shibuya, T., Soderlund, K. Experimental and simulation efforts in the astrobiological exploration of exooceans. *Space Science Reviews*, 216:9 (citations: 41)

2019 Camprubi, E., de Leeuw, J. W., House, C. H., Raulin, F., Russell, M. J., Spang, A., Tirumalai, M. R., Westall, F. The emergence of life. *Space Science Reviews*, 215:56 (also appearing as a chapter in *Ocean Worlds: Habitability in the Outer Solar System and Beyond*, Springer, 2021) (citations: 107)

2019 Choblet, G., Cadek, O., Freissinet, C., Jones, G., Le Gall, A., MacKenzie, S., Neveu, M., Olsson-Francis, K., Saur, J., Schmidt, J., Sekine, Y., Tobie, G., Vance, S., Barge, L., Behounkova, M., Buch, A., **Camprubi, E.**, Hedman, M., Lainey, V., Lucchetti, A., Mitri, G., Nimmo, F., Panning, M., Postberg, F., Shibuya, T., Sotin, C., Soucek, O., Szopa, C., Tomohiro, U., Van Hoolst, T. Enceladus as a potential oasis for life: Science goals and investigations for future explorations (a white paper submitted in response to ESA's Voyage 2050 call). Published also in *Experimental Astronomy*, https://doi.org/10.1007/s10686-021-09808-7 (citations: 26)

2018 Camprubi, E., Whicher, A., Pinna, S., Herschy, B., Lane, N. Acetyl phosphate as a primordial energy currency at the origin of life. *Origin of life and evolution of biospheres*, 48(2):159-179 (citations: 91)

2017 Camprubi, E., Jordan, S., Vasiliadou, R., Lane, N. Iron catalysis at the origin of life. IUBMB *Life*, 69(6), 373-381 (citations: 168)

2016 Sojo, V., Herschy, B., Whicher, A., **Camprubi, E.**, Lane, N. The origin of life in alkaline hydrothermal vents. *Astrobiology*, 16(2), 181-197 (citations: 350)

2014 Herschy, B., Whicher, A., **Camprubi, E.**, Watson, C., Dartnell, L., Ward, J., Evans, J. R. G., Lane, N. An Origin-of-Life reactor to simulate alkaline hydrothermal vents. *Journal of Molecular Evolution*, 79, 213-227 (citations: 222)

Awards, fellowships and grants

Total secured external funding since joining UTRGV: **$1,450,000**.

2025 NASA-Interdisciplinary Consortia for Astrobiology Research (ICAR). Role: Co-I/Theme Lead. Title: Impact-Generated Hydrothermal Systems: Dynamic Habitability Potential and Biosignature Characterization – **$6,400,000**. Result: not funded.

2025 (under review) Texas Space Commission SEARF. Role: Co-I. Title: Microbiome Monitoring in Space and Near-Earth Extraterrestrial Environments (NEEEs): Prediction, Prevention and Clinical Management Strategies of Infectious Diseases – **$3,400,000**. Result: **under review**.

2025 NASA/Maine Space Grant Consortium – EPSCoR. Role: Co-I. Title: Maine Core Facilities For Materials and Geochemical Analyses: Enabling Research Ranging from the Origin-of-Life to the Origin of the Peopling of Maine – **$600,000**. Result: **funded.**

2025 Human Frontier Science Program Research Grant (Early Career) Letter of Intent. Role: Co-I. Title: Nucleoside synthesis by polynucleotides. Result: not encouraged.

2025 Chuo University Visiting Scholars Program. Role: Awardee – 200,000 JPY. This award allowed me to spend 3 weeks in Japan (May 2025) to work with my collaborators in Tokyo. Result: **funded**.

2025 NASA MOSAICS Seed Funding (MSF). Role: PI. Title: GeoRedox – Establishing a cross-mentoring collaborative network between NASA JPL and two under-resourced institutions to carry out astrobiological investigations of aqueous geochemistry – $500,000. Result: not funded.

2025 NASA FINESST. Role: PI. Title: Development of a Nanomaterial-Based Sensor for Detecting Lunar Regolith Dust Contamination – **$149,808**. Result: under review.

2025 (under review) NASA – MUREP ESSR. Role: Co-I. Title: VITAL - Virtual Institute for Temporal and Additive Learning – **$1,200,000**. Result: **under review**.

2025 NSF S-STEM. Role: Co-I. Supporting Training for Achieving RGV Scholars in STEM – $1,999,582. Result: withdrawn.

2025 NSF BRC-BIO. Role: PI. Title: Building a Cell - Coupling Amphiphile Prebiotic Chemistry to Protocell Heredity – **$502,983**. Result: **funded**.

2025 NSF REU. Role: Collaborator. Title: REU Site - Summer Undergraduate Research Program in Biochemistry – **$145,000**. Result: not funded.

2024 Welch Foundation Departmental Chemistry Grant. Role: senior personnel. Result: **funded**.

2024 Maine Space Grant Consortium (MSGC) - EPSCoR RID. Role: Co-I. Title: Geochemical analyses into the origins of life and the peopling of Maine; inclusive pathways to NASA-related research lead primarily by a team of displaced chemists – **$50,000**. Result: **funded**.

2024 USDA NIFA. Role: Project Director (PI). Title: Catalytic isomerization of galactose from acid whey into low-calorie tagatose – **$299,672**. Result: **funded**.

2024 NASA Research Initiation Awards (RIA). Role: PI. Title: Understanding Europa's surficial chemistry - A window to its ocean – **$299,246**. Result: **funded**.

2024 NASA Research Opportunities in Space and Earth Sciences 2023 (ROSES-2023) Exobiology. Role: Co-I. Title: Tracing Biosignature Diagenesis in Icy Worlds – $1,871,000. Result: not funded.

2024 NSF S-STEM. Role: Co-I. Supporting Training for Achieving RGV Scholars in STEM – $1,999,997. Result: not funded.

2024 NASA MIRO. Role: Co-I. Title: The South Texas Space Science Institute - Partnering with NASA to advance research and education in the space sciences – $4,842,046. Result: withdrawn.

2024 Welch Foundation Research Grant. Role: PI. Building a Membrane: From the Prebiotic Chemistry of Amphiphiles to Protocell Biophysics – $300,000. Result: not funded.

2024 Faculty Travel Support Program (UTRGV) – **$800**. Result: **funded.**

2023 Heising-Simons Foundation, Texas Area Planetary Science travel grant – **$600**. Result: **funded.**

2023 NSF MRI. Role: Senior personnel. Title: Acquisition of a Single-Crystal Xray Diffractometer – $375,133. Result: not funded.

2023 Human Frontier Science Program (HFSP) Early-Career Research Grant. Role: PI. Title: Beyond the central dogma: Evolution before genetic coding in protocell populations – $1,050,000. Result: not funded.

2023 Faculty Travel Support Program (UTRGV) – **$800**. Result: **funded.**

2023 NSF MRI. Role: Senior personnel. Title: Acquisition of a TCI CryoProbe Prodigy for a 600 MHz NMR Spectrometer for Research & Education at Rio Grande Valley – $350,064. Result: not funded.

2022 John Templeton Foundation General Call. Role: co-PI. Title: Beyond the central dogma: Evolution in vesicle systems without genetic coding – $1,489,617. Result: not funded.

2022 Maine Space Grant Consortium (MSGC)/ EPSCoR RID. Role: Senior personnel. Title: Elucidating mechanisms for a potential origin of life on water/rocky planets – $50,000. Result: not funded.

2022 The University of Texas System. Role: PI. Rising STARs award – **$300,000**. Result: **funded.**

2022 Selected as one of 30 fully-funded international ECRs to attend the Templeton Foundation's IdeasLab "Bringing Chemistry, Physics and Computing to Life", an interdisciplinary grant-writing workshop which took place June 19-24 2022 in Prague (CZ) aimed at obtaining extramural funding for Origins and Artificial Life research – **€2,000**. Result: **funded.**

2021 Awarded a Human Frontier Science Program (HFSP) 3-year Cross-Disciplinary Fellowship to join the Earth-Life Science Institute (Tokyo Tech, Japan) – **€160,000**. Result: **funded.**

2019 'Sandpit' grant to foster networking and interdisciplinary grant write-up. Awarded by the Physics of life network 2 (PoLNet2), EPSRC Research Council (UK) – **£5,000**. Result: **funded.**

2018 Funding for the organisation of a 1-day international Origins Symposium at Utrecht University awarded by the Dutch Origins Center (NWO) – **€10,000**. Result: **funded.**

2017 Awarded an Origins Center (NWO) 3-year Fellowship for its 1st gamechanger: 'Origin and co-evolution of Earth-like planets and life' to construct a high-pressure origins simulator. I chose Dr Inge Loes ten Kate's Astrobiology group (Utrecht University) as my host lab – **€140,000** (excluding salary). Result: **funded.**

2017 SLMS PhD student travel grant for international conferences (to ELSI, Japan) awarded by UCL – **£1,500**. Result: **funded.**

2016 EANA travel grant for postgraduate students (EANA, Greece) – **€400**. Result: **funded.**

2015 AbGradE + EANA travel grant for postgraduate students (EANA, Netherlands) – **€500**. Result: **funded.**

2014 Fellowship for PhD study for highly impactful PhD projects awarded by UCL Impact Awards (2 years of PhD funding; UK) – **£70,000**. Result: **funded.**

2014 Fellowship for overseas postgraduate study awarded by 'la Caixa' Foundation (2 years of PhD funding; Spain). This fellowship is handed in person by the King of Spain – **€85,000**. Result: **funded.**

2012 Extraordinary prize for the highest grades during the Biochemistry degree amongst the 2012 cohort awarded by the Autonomous University of Barcelona.

Career development training

2025 12-week UTRGV-sponsored external program offered by NCFDD Faculty Success Program (NCFDD-FSP)

2024 Juntos al Éxito! – Path to R1 (UTRGV)

2024 Juntos al Éxito! – Fomentando la Excelencia Bilingüe: Meet the Office for Bilingual Integration Team (UTRGV)

2025 Juntos al Éxito! – Research Growth Update: Reaching 100$M on our 10th Aniversary (UTRGV)

2024 'Documenting Teaching Effectiveness: Showcasing Your Teaching Values & Beliefs in Your Dossier', Center for Teaching Excellence, Division of Student Success (UTRGV)

2023 'Juntos al Éxito! – Empowering Our Pedagogical Skills' (UTRGV)

2023 'Juntos al Éxito! – COLTT Services and Support' (UTRGV)

2023 'Professional development in teaching' workshop (by Dr. Justin Shaffer) as part of one of the new course design Ad Hoc committees, SIBCS (UTRGV)

2023 Writing-Mentoring Program, Mentor: Prof. Mario Diaz (Department of Physics and Astronomy), College of Sciences (UTRGV) (testimonial video: https://www.utrgv.edu/cos/faculty-success/writing-mentoring-program/index.htm)

2023 'Eliciting Meaningful Student Feedback on Course Evaluations through Guided Open-Ended Questions', Center for Teaching Excellence, Division of Student Success (UTRGV)

2023 'How to make the most of your mentor relationship', workshop organized by the Office of Faculty Success & Diversity (UTRGV)

2023 'Traditional Lecture vs. Active Learning: Exploring the Impact of Hands-On Engagement for Student Success Across Academic Disciplines', Center for Teaching Excellence, Division of Student Success (UTRGV)

2023 'Cheating in the 21st Century: How to turn a menace into an innovative educational tool?', Juntos al Éxito, College of Sciences (UTRGV)

2023 'Curating Your Teaching Narrative for Tenure and Promotion', Center for Teaching Excellence, Division of Student Success (UTRGV)

2022 – 2023 'Keys to Research' workshop series, Faculty Research & Professional Development Program, Division of Research (UTRGV)

2022 'Say Goodbye to Reading the Syllabus: Explore memorable and interactive learning' workshop, Center for Teaching Excellence, Division of Student Success (UTRGV)

2022 'Not Just Another Reading Assignment: Active reading strategies to engage your students' workshop, Center for Teaching Excellence, Division of Student Success (UTRGV)

2022 'Incorporating Critical Reflection to Help Students Articulate Their Learning' workshop, Center for Teaching Excellence, Division of Student Success (UTRGV)

Service

02/2025 Invited speaker at the Division of Research event COMPASS: From Silos to Synergy

2024 – 2025 Member of the tenure-track faculty search committee for the Computational Biochemistry position, SIBCS (UTRGV) – Chair: Megan Keniry

2024 Member of the search committee for the new SIBCS Director, SIBCS (UTRGV) – Chair: Rob Gilkerson

08/2024 Manned SIBCS stand to welcome and provide information to new students

04/2024 Hosted an in-person external speaker (Dr. Rebecca Rapf, Trinity University) at the SIBCS Seminar Series

01/2024 Manned SIBCS stand to welcome and provide information to new students

12/01/2023 - **present day:** Professional Outreach Lead, South Texas Space Science Institute, University of Texas Rio Grande Valley (Texas, United States) (https://www.utrgv.edu/stssi/)

09/2023 Interview in Vaquero Radio together with Dean Incera and Director Dearth to promote and explain the interdisciplinary nature of the new School of Integrative Biological and Chemical Sciences (https://utrgvradio.com/index.php/2023/09/18/utrgv-new-school-of-integrative-biological-and-chemical-sciences/)

08/2023 Manned SIBCS stand to welcome and provide information to new students

08/2023 – **05/2024** Member of the new course development (Cell & Molecular Biology course) Ad Hoc Committee, SIBCS (UTRGV)

04/2023 Judge at UTRGV's COS Annual Research Conference (Brownsville, TX) for the Departments of Biology and Chemistry

02/2023 - **08/2023** Member of the Instrumentation Committee for the Department of Chemistry

01/2023 - **present day** Member of UTRGV's Biochemistry & Molecular Biology MS organizing committee

01/2023 Manned Biology Department stand to welcome and provide information to new students

09/2022 - **09/2024** Member of the Marketing and Community Engagement Committee, Department of Biology/SIBCS

11/2022 Co-organization of the Department of Chemistry's Open House events (both Brownsville and Edinburg). Collaborated with a divulgatory demonstration stand of the research conducted in the Astrobiochemistry Lab.

Conference contributions

I have attended numerous national and international conferences, workshops, and institutional seminars. Most (16/19) of my conference contributions since September 2022 were invited by the organizers. Please find the full list of my oral and poster contributions at the end of this document.

Teaching activities

Formal teaching:

Fall 2024 Taught 'Astrobiology' as a standalone undergraduate course (BIOL 4340); student evaluation of 100% agree or strongly agree. Enrollment of 20.

Spring 2024 Taught 'Topics in Biol I: Astrobiology as a graduate course (BIOL 6398, 02I); student evaluation of 70% agree or strongly agree. Enrollment of 8.

Fall 2023 Taught 'Special Topics I: Astrobiology' as an undergraduate course (BIOL 4398-02); student evaluation of 95% agree or strongly agree. Enrollment of 17.

Spring 2023 Designed new undergraduate course on 'Special Topics in Biochemistry: Astrobiology' (CHEM 4306); student evaluation of 95% agree or strongly agree. Enrollment of 18.

Spring 2023 Guest Lecture on the 'Origin of Life' in Dr. Kathryn Perez's 'Evolution' course (BIOL 331).

Spring 2020 and **Spring 2019** Lectured on the course 'Planetology, an introduction' (Utrecht University, Netherlands) to 3rd year Geosciences students.

Spring 2017 and **Spring 2016** Lectured on the course 'Energy and evolution' (UCL, UK) to 2nd year Biological Sciences students.

Research student and staff supervision:

Postdoctoral researchers:

Dr. Deepali Singh (January 2025 – present day), UTRGV

PhD students (as primary supervisor):

Myrine Barreiro-Arevalo (September 2023 – present), Mathematics and Statistics with Interdisciplinary Applications, UTRGV
Mauricio Berazaluce (September 2024 – present), Materials Science and Engineering, UTRGV

PhD students (not as primary supervisor):

Antonio Lopez Garcia (2025 – present day), INTA-Centro de Astrobiologia, Madrid, Spain (dissertation committee)
Richard Camuccio (2024 – present day), Physics and Astronomy, UTRGV (dissertation committee)
Nina Kopacz (May 2019 – September 2021), Planetary Sciences, Utrecht University
Claudia Giese (November 2018 – March 2021), Planetary Sciences, Utrecht University
Jingbo Nan (September 2018 – January 2021), Planetary Sciences, Utrecht University

MS students:

Gabriella Garza (September 2023 – present), Biology, UTRGV
Ilankuzhali Elavarasan (January 2024 – present), Chemistry, UTRGV
Andrea Aldaba (September 2024 – present), Biochemistry and Molecular Biology, UTRGV
Kaelyn Calma (January 2025 – present), Biochemistry and Molecular Biology, UTRGV
Kiara Garduno (September 2025 – present), Biochemistry and Molecular Biology, UTRGV
Sophie Luijendijk (September 2020 – September 2021), Environmental Sciences, Utrecht University
Michiel Somers (March 2020 – August 2020), Geochemistry, Utrecht University
Frances Versluis (September 2019 – May 2020), Earth Sciences, Utrecht University
Silvana Pinna (October 2016 – September 2017), Biochemistry, University College London
Jeroen Carmiggelt (April 2019 – August 2019), Earth Sciences, Utrecht University
Stan Bakker (November 2018 – April 2019), Earth Sciences, Utrecht University
Iro Pierides (October 2016 – April 2017), Biochemistry, University College London
Sylvia Lim (October 2015 – April 2016), Biochemistry, University College London

BS students:

Shelby Lopez (May 2025 – present), Biology, UTRGV
Nolan Salinas (January 2025 – present), Biology & Chemistry, UTRGV
Louie Tapia (May 2025 – August 2025), Chemistry, UTRGV
Baz Vitek (May 2025 – August 2025), Astronomy, Mount Holyoke College
Dulce Castillo (September 2023 – present), Chemistry, UTRGV
Kiara Garduño (September 2023 – August 2028), Biology, UTRGV
Kimberly Moran (January 2024 – May 2024), Biology, UTRGV
Sarah Walzer (September 2023 – May 2024), Biology, UTRGV
David Hernandez (September 2023 – May 2024), Chemistry (Chem Problems, CHEM 4201), UTRGV
Mauricio Berazaluce (September 2023 – May 2024), Chemistry (Chem Problems, CHEM 4201), UTRGV
Abraham Torres (October 2023 – December 2023), Biology, UTRGV
Carlos Gonzalez (September 2023 – December 2023), Biology, UTRGV
Fernando Garcia (September 2023 – December 2023), Biology, UTRGV
Hebe Wildi (January 2016 – April 2016), Natural Sciences, University College London
Naho Genko (October 2014 – April 2015), Biochemistry, University College London

Post-bacc students:

David Segovia (August 2024 – April 2025), UTRGV
Andrea Aldaba (June 2024 – August 2024), UTRGV
Sarah Walzer (June 2024 – July 2024), UTRGV
Gabriella Garza (January 2023 – September 2023), UTRGV

Summer interns and exchange students:

Ruvan de Graaf (July 2024 – August 2024), UTRGV (exchange student from CoA, Maine)
Jeanne Bonnel (June 2016 – August 2016), University College London

Achievements of mentored students:
Myrine Barreiro-Arevalo – JSPS (Japanese Education Ministry) Postdoctoral Research Fellowship (Short-Term) for continuing her PhD research at the lab of Dr. Tomoaki Matsuura (Institute of Science Tokyo) for 6 months starting in October 2025
Myrine Barreiro-Arevalo – Received the COS STEM Research Conference award to the best doctoral oral presentation within the SMSS PhD Program
Myrine Barreiro-Arevalo – JSPS (Japanese Education Ministry) Summer Research Fellowship for performing PhD research at the lab of Dr. Tomoaki Matsuura (Toyko Institute of Technology) for 3 months during summer 2024
Myrine Barreiro-Arevalo – Outstanding Graduate Research Award from UTRGV's SMSS PhD Program
Andrea Aldaba – Received the COS STEM Research Conference award to the best oral presentation within the BCMB Program
Mauricio Berazaluce – Travel grant by Arizona State University to attend their 'MateriAlZ (materials science applied to space sciences) Winter School' (Tucson, Arizona) (2024)
Mauricio Berazaluce – Travel and research grant by Maine Space Grant Consortium/EPSCoR RID to work for the month of July at the lab of my collaborator Dr. Reuben Hudson (College of the Atlantic, Maine) (2024)
Dulce Castillo – Dean Excellence Fellowship (2023)
Dulce Castillo – SIBCS Student Success Awards (2025) in the Chemistry – Undergraduate Research Achievement category
Dulce Castillo – SIBCS Summer Undergraduate Research Scholar (2024)
Ilankuzhali Elavarasan – Attended the workshop: Culturally Inclusive Planetary Engagement workshop in Tucson, AZ. She got a $2,175 travel grant to attend from the external organizers (Planetary ReaCH team)
Ilankuzhali Elavarasan – Selected to attend AbGradCon (Astrobiology Graduate Conference) with a fully paid travel grant from the organization
Ilankuzhali Elavarasan – Awarded a NASA Astrobiology Early Career Collaboration project to spend a month at NASA Jet Propulsion Lab during summer 2025. Ilan advanced her Chemistry MS project by learning advanced cryogenic techniques
Ilankuzhali Elavarasan – Travel grant by the Lunar and Planetary Institute (LPI) to attend their hands-on workshop on 'Modern SEM Techniques for Planetary Materials' (2024)
Kiara Garduño – Awarded a NASA RAISE summer internship to spend 3 months at NASA JPL during summer 2025. Her project with ancient Martian hydrogeology
Kiara Garduño – Acceptance into REU Program in Physics & Astronomy (2024)
Gabriella Garza – UTRGV Presidential Fellowship for Biology MS studies (2023)
Gabriella Garza – LSAMP-PRELS Fellowship (2023)

Since September 2022, a total of 5 student travel grants have been awarded by conference organizers to my research students for their conference attendance:
Texas Area Planetary Science 2024 (San Antonio) – Mauricio, Ilankuzhali, Andrea
SACNAS conference 2023 (Portland) – Myrine
LSAMP conference 2023 (El Paso) – Gabriella

I often write recommendation letters (5/semester in average) for awards and higher-level studies for both taught and research students who exceeded my expectations as a mentor.

Conference and workshop organization and chairing
2025 Moderator at LPSC session 'Solar System Atmospheres', Houston (US)

2023 - 2024 Primary convener for session titled 'Prebiotic chemistry or biosignature? Navigating the maze of abiogenesis for space exploration'. We received more than 20 abstracts, which were distributed into 3 sessions (2 oral, 1 poster). Astrobiology Science Conference (AbSciCon), Providence, (US)

2023 Chaired invited speakers' session #3 at the first Texas Area Planetary Science meeting, San Antonio, (US)

2023 Member of the scientific organizing committee for the first Texas Area Planetary Science meeting, San Antonio, (US)

2021 Steering group for the organization of the workshop 'Out-of-Equilibrium Systems, Emergence and Life' (Lorentz Center-Online, Netherlands)

2018 Organized an international 1-day symposium at Utrecht University (Netherlands) titled 'Origins Symposium – Tracing life's emergence and preservation'.

2018 Chaired session 'Prebiotic chemistry' at the 1st Interdisciplinary Origin of Life (IOoL) meeting, Düsseldorf (Germany).

2018 Chaired session 'The building blocks of life' at the European Astrobiology Network Association (EANA) conference, Berlin (Germany).

2015 Organising committee for the Astrobiology Society of Britain (ASB06) conference at UCL-Birkbeck (UK).

2014 Organising committee for UCL's Origin of life open symposium (UK).

Industrial innovation

2018 - 2020 Together with Micronit Microtechnologies (Enschede, NL) we developed three types of pressure-resistant (up to 75 bar) relaxed glass microfluidics chips. Since then, Micronit offers high-pressure solutions for a variety of laboratory applications.

2018 - 2020 Developed a high-pressure H_2 solubilization unit in collaboration with Da Vinci Laboratory Solutions (Rotterdam, NL) capable of maintaining the pressurization level when the unit's contents are being suctioned by a high-pressure syringe pump (https://digitaalmagazine.labvision.nl/labvision-uitgave-1/labvision-1-artikel-da-vinci).

Research expeditions

07/2018 Participated in a research expedition with Dr Helen King (Utrecht University) to Rio Tinto (Huelva, Spain) to study phosphate O-isotopes as a tracer for life in extreme environments (funding by EuroPlanet 2017). This project led to our co-supervision of masters student Stan Bakker.

Science dissemination activities

05/2025 Designed and manned an interactive Space Science stand (as part of the South Texas Space Science Institute) at Space Fest Brownsville

12/2024 Invited speaker at the kick-off event of the UTRGV Father-Son program

09/2024 College of Science representative at outreach event 'The Shooting Star of Starr County: An Out of this World Discovery' – A meteorite exhibit opening night at the Museum of South Texas History

08/2024 Interview for the wider audience with Thomas Spencer (UTRGV – Division of Research) on my recently awarded NASA RIA project impacting the data analyses from NASA's current mission to Saturn 'Europa Clipper' (https://www.utrgv.edu/research/news/archive/astrobiology-and-icy-worlds/index.htm).

05/2024 Designed and manned (together with 4 of my research students) an interactive Space Science stand (as part of the South Texas Space Science Institute) at Space Fest Brownsville.

03/2024 Designed and manned (together with 3 of my research students) an interactive stand with UTRGV's Mineral and Fossil collection for the 6th Annual Science Discovery Day IDEA College Prep Elsa.

08/2023 Divulgation article 'On organic molecules in space and what they tell us' for South Texas Astronomical Society's FarFarOut! Magazine; Volume 2, Issue 2, pages 10-13 (https://starsocietyrgv.org/wp-content/uploads/2023/08/FFO-6-Master.pdf).

05/2023 Video interview by PhD Insiders on my research at and mentoring philosophy (English: https://www.phdinsiders.com/labs/camprubi-casas-lab & Spanish: https://www.youtube.com/watch?v=dxLprym85hY).

03/2023 Divulgation talk 'From the stars to your backyard – Meteorites impacting the Rio Grande Valley'; in collaboration with Prof. Juan Gonzalez and organized by UTRGV's College of Sciences. Also appeared on a television interview (Telemundo 40) covering this event (https://www.telemundo40.com/noticias/local/en-texas-han-caido-al-menos-300-meteoritos-y-crece-el-interes-por-estas-rocas/2272716/).

02/2023 Television interview (Channel 5-KRGV) covering the meteorite impact which fell in Starr county in February 2023 (https://www.krgv.com/news/meteorite-fragment-sparks-interest-among-local-researchers).

01/2023 Designed and manned an interactive stand with UTRGV's Mineral and Fossil collection for the 5th Annual Science Discovery Day IDEA College Prep Elsa.

02/2021 Collaboration with Esther Thole on two NEMO Kennislink articles: 'De oeroceaan op zakformaat' (English: A pocket-sized primeval ocean) (https://www.nemokennislink.nl/publicaties/de-oeroceaan-op-zakformaat/) and 'De jonge aarde was een gigantische batterij' (English: The young Earth was a giant battery) (https://www.nemokennislink.nl/publicaties/de-jonge-aarde-was-een-gigantische-batterij/).

05/2020 Collaboration with Melanie Metz on a Quest phyisical magazine article about the origins of life and my research 'Hoe is ooit het leven ter wereld gekomen?' (English: How did life emerge?).

02/2020 Collaboration with Utrecht Young Academy and JINC with disfavored students from vocational schools (VMBO) on designing a vlog about space exploration 'Waar in het heelal kunnen we leven winden?' (English: Where in the Universe can we find life?).

12/2019 YouTube video 'How did life get Started?' on my research as part of the Origins Center produced by Sander van Iersel: https://www.youtube.com/watch?v=ssy_lF120Pw&t=3s.

03/2016 Two talks on space exploration at Long Sutton CofE Primary School (UK) to KS2 students as part of the Astrobiology Society of Britain 'STARS' space sciences talks.

01/2016 Talk on the choices for a career in astrobiology at IES Gurb (Spain) to 4th year high school students.

05/2015 Co-organized and manned a one-week scientific divulgation stand for the Royal Society Summer Exhibition 'UCL Origins and Life'.

I often collaborate with science divulgation magazines and blogs covering new advances in the astrobiology and origins fields (*e.g.,* https://www.the-scientist.com/news-opinion/hydrogen-fueled-life-s-origins-study-69528, https://www.livescience.com/what-energy-source-sparked-the-evolution-of-life).

Memberships, synergistic activities, and peer reviewing

01/2025 - present day Elected member of the Board of Directors at NASA's Texas Space Grant Consortium (Texas, United States).

12/2024 - present day Member of an expert working group for the European Space Agency on updating the planetary protection regulations for the exploration of Icy Worlds (ESA).

08/2024 - present day Member of the Steering Committee of NASA's Network for Ocean Worlds (NOW).

11/2023 - present day Founding membership of the Scientific Society for Astrobiology (SSA).

07/2023 - present day Member of the American Geophysical Union (AGU).

03/2023 - present day Member of the Texas Area Planetary Science (TAPS) network as the UTRGV representative (https://sites.google.com/view/tapsmeeting/participating-institutions).

11/2022 - **present day** Member of the International Society for the Study of the Origin of Life – The International Astrobiology Society (ISSOL).

02/2022 – **05/2023** Special Issue Editor "The Origin and Early Evolution of Life: Prebiotic Chemistry Perspective" (*Life*; 2075-1729, MDPI).

10/2021 - **present day** Member of the Working Group on abiogenesis, European Astrobiology Institute (EAI).

09/2021 - **present day** Member of the Network of Researchers on the Chemical Evolution of Life (NoRCEL).

06/2021 - **present day** Member of SAGANet.

04/2021 - **12/2023** Topic Editor at the Editorial Board of *Symmetry* (2073-8994, MDPI).

08/2020 Member of the selection panel for a PEPSci-2 consortium PhD position on 'Prebiotic polymerization routes on rocky exoplanets' (University of Amsterdam).

05/2020 - **present day** Member of the international Origin of Life Early-career Network (OoLEN).

08/2018 – **07/2022** Member of the management committee for the COST action 'Chemobrionics' as the formal Netherlands representative.

05/2018 - **present day** Member of the Dutch Origins Center.

02/2017 - **present day** Member of the European Astrobiology Network Association (EANA).

I am an active reviewer for many scientific journals including **Nature**, Nature Communications, ACS Accounts of Chemical Research, Earth and Planetary Science Letters, Communications Earth & Environment, Frontiers in Microbiology, PNAS, BioEssays, Chemistry - A European Journal, Life, Minerals, Symmetry, DNA and Cell Biology, and Evolution.

I often peer-review national and international grant proposals within the wide field of astrobiology, covering foundational biological & chemical research to geochemistry & planetary science topics. Examples include ACS Petroleum Research Fund DNI and NASA Exobiology programs.

<u>Conference contributions, in chronological order</u>

Oral (IT = invited talk; IW = invited workshop):

2025 IT: Self-Oxidation of the Atmospheres of Rocky Planets with Implications for the Origin of Life; NASA LIFE Research Coordination Network (RCN) seminar series, Online

2025 IT: On wet rocky worlds – How does origin of life research impact space exploration efforts at ocean worlds?; *Institut* de Sciences et d'Ingénierie Supramoléculaires (ISIS) seminar series (Strasbourg University), Strasbourg, France

2025 IT: What are biosignatures? Searching for E.T. in our cosmic backyard; Chuo University seminar, Chuo University, Tokyo (Japan)

2025 IT: On wet rocky worlds – How does origin of life research impact space exploration efforts at ocean worlds?; ELSI Seminar Series, Earth-Life Science Institute – Institute Science Tokyo, Tokyo (Japan)

2025 IT: On wet rocky worlds – How does origin of life research impact space exploration efforts at ocean worlds?; ICE-CSIC Seminar Series, Space Science Institute – Universitat Autonoma de Barcelona, Bellaterra (Spain)

2024 IT: Understanding Europa's surficial chemistry – A window to its ocean; RAISE seminar series (UTRGV), Online

2024 IT: On wet rocky worlds – How does origin of life research impact space exploration efforts at ocean worlds?; UTIG Seminar Series, University of Texas Austin, Austin (US)

2024 IT (**PhD summer school**): Understanding life's emergence and distribution; Dust2DNA PhD summer school; Globe – University of Copenhagen, Copenhagen (Denmark)

2024 IT (**Keynote talk**): What are biosignatures? Searching for E.T. in our cosmic backyard; College of Science Annual Research Conference, UTRGV, Edinburg (US)

2024 Spaceflight Human Optimization and Performance Summit (SHOP-24) (networking opportunity, no presentation), University of Houston-Clear Lake, Houston (US)

2024 IT: On wet space rocks – The dance between geochemistry and biochemistry; Center for Advanced Measurements in Extreme Environments (CAMEE), University of Texas San Antonio, San Antonio (US)

2023 IT: How to make a planet – A beginner's guide; UTRGV's SIBCS Research Seminar

2023 IT: Becoming a Professor; Origin of Life Early career Network (OoLEN) seminar series, (International Audience), Online

2023 IT: Life's emergence as a planetary phenomenon – Hints for life beyond Earth; Texas Area Planetary Science (TAPS) meeting, San Antonio (US)

2023 IW: Panel discussion on 'Challenges to becoming a professor in Astrobiology'; AbGradEPEC Symposium; Astrobiology Graduates in Europe (AbGradE)- Europlanet Early Careers (EPEC), La Palma (Spain)

2023 IT: The transition between Hadean geochemistry and ancient biochemistry – What are we missing?; Globe Institute seminar series, Copenhagen (Denmark)

2023 IT: The transition between Hadean geochemistry and ancient biochemistry – What are we missing?; Astrobiology Hour at Pennsylvania State University (US), Online

2022 IT: Living Energy – How hydrothermal systems bridge the gap between Earth's geochemistry and earliest biochemistry, and beyond; UTRGV's Biology Research Seminar

2022 IT: The role of vectorial chemistry at life's emergence; MPIA conference 'Towards Molecular Complexity: At the crossroads between astrophysics and biochemistry', Heidelberg (Germany)

2021 IT: Metal sulphides as primitive energy-coupling systems on the early Earth and beyond; HPSTAR Beijing (China) seminar, Online

2021 IT: Metal sulphides as primitive energy-coupling systems on the early Earth and beyond; 2nd Origins Center (Netherlands) conference, Online

2020 IT: An experimental high-pressure Origins Simulator to study the emergence of life on Earth; 2nd Interdisciplinary Origin of Life (IOoL) meeting, Online

2019 IT: An experimental high-pressure Origins Simulator to study the emergence of life on Earth; Netherlands Institute for Space Research (SRON) seminar, Groningen (Netherlands)

2019 IT: An experimental high-pressure Origins Simulator to study the emergence of life on Earth; Earth-Life Science Institute (ELSI) seminar, Tokyo (Japan)

2019 IT: An experimental Origins Simulator to study the emergence of life on Earth – When, where, how and why; Centre de Biophysique Moléculaire (CBM) seminar, Orléans (France)

2019 IT: An experimental Origins Simulator to study the emergence of life on Earth – When, where, how and why; FEST (Utrecht University's Earth Sciences department seminar), Utrecht (Netherlands)

2019 Contributed talk: An origins simulator – Could natural pH gradients have powered the origin of life?; Nederlands Aardwetenschappelijk congress (NAC), Utrecht (Netherlands)

2019 IT: An origins simulator – Did vectorial electrochemistry power the emergence of life?; 30/80 meeting celebrating 30 years of the alkaline vent hypothesis and Mike Russell's 80th birthday, Granada (Spain)

2018 IT: The emergence of life on Earth, Mars and beyond; KNGMG Kringendag/Symposium at the Vrije Universiteit, Amsterdam (Netherlands)

2018 IT: An origins simulator – Could pH gradients have powered the origin of life?; ExoOceans workshop by the International Space Science Institute (ISSI), Bern (Switzerland)

2018 Contributed talk: An origins simulator – Could natural pH gradients have powered the origin of life?; European Astrobiology Network Association (EANA) conference, Berlin (Germany)

2017 Contributed talk: Alkaline hydrothermal vents as electrochemical reactors driving an autotrophic origin of life; The International Society for the Study of the Origin of Life (ISSOL) meeting, San Diego (USA)

2017 IT: Acetyl phosphate and the origin of life at alkaline hydrothermal vents; Genetics, Evolution and Environment (GEE) department symposium UCL, London (United Kingdom)

2016 Contributed talk: Alkaline hydrothermal vents as electrochemical reactors driving an autotrophic origin of life; European Astrobiology Network Association (EANA) conference, Athens (Greece)

Poster (SP = poster by my student, ST = talk by my student):

2025 Self-oxidation of the atmospheres of rocky planets – implications for the origin of life, Lunar and Planetary Science Conference (LPSC), Houston (TX), US

2025 Understanding Icy World Surface Chemistry as a Tool to Peer Through its Crust, NASA workshop: Exploring the Abiotic Background for Life Detection, Washington DC, US

2025 SP (Deepali Singh) Quantifying Variables in Search for Habitable Environments on Mars and Beyond, Lunar and Planetary Science Conference (LPSC), Houston (TX), US

2025 SP (Deepali Singh) Quantifying Variables in Search for Habitable Environments on Mars and Beyond, COS STEM Research Conference, Edinburg (TX), US

2025 ST (Deepali Singh) Brine and Beyond: Environmental Influences on Microbial Life in Saline Environments, SIBCS seminar series, Edinburg (TX), US

2025 ST (Myrine Barreiro-Arevalo) Evolution Before Genes: Modelling Heredity in Vesicle Systems, NASA LIFE Research Coordination Network (RCN) seminar series, Online

2025 SP (Ilankuzhali Elavarasan) Ice-Organic-Salt Interactions on Europa: Irradiation & Ice Simulation, AbGradCon 2025, Boulder (CO), US

2025 ST (Myrine Barreiro-Arevalo) A Mathematical Model to Study Heredity of Vesicle Systems, SIAM Annual Meeting (AN25), Montreal, Canada

2025 ST (Myrine Barreiro-Arevalo) A Mathematical Model to Study Heredity of Vesicle Systems, COS STEM Research Conference, Edinburg (TX), US

2025 ST (Myrine Barreiro-Arevalo) A Mathematical Model to Study Heredity of Vesicle Systems, The 9th Coastal Bend Mathematics and Statistics Conference, San Antonio (TX), US

2025 SP (Mauricio Berazaluce) Development of a Nanomaterial-Based Sensor for Detecting Lunar Regolith Dust Contamination, COS STEM Research Conference, Edinburg (TX), US

2025 SP (Kaelyn Calma), Synthesis and Polymerization of Thioesters Under Alkaline Hydrothermal Vent Conditions, COS STEM Research Conference, Edinburg (TX), US

2025 SP (Kiara Garduno Perez), Cracking Europa's Shell: Understanding Biosignature Diagenesis with Assembly Theory, COS STEM Research Conference, Edinburg (TX), US

2025 SP (Nolan Salinas) Identification of Phenolic Acids & Flavonoids from Honey via Liquid Chromatography-Mass Spectrometry (LCMS), COS STEM Research Conference, Edinburg (TX), US

2025 ST (Kiara Garduno Perez), Beneath the Red Surface: Functional Architecture of Gale Crater's Subsurface System – A Stratified Framework for Simulating Salt-Brine Transport, Redox Chemistry, and Organic Preservation on Ancient Mars, OSTEM Intern Conference, NASA-Jet Propulsion Laboratory, Pasadena (CA), US

2025 SP (Andrea Aldaba), Simulating the Surface Maturation of Exogenous Organics on Europa, COS STEM Research Conference, Edinburg (TX), US

2024 SP (Dulce Castillo) Investigating ATP Sequestering on Iron Sulfides, SBICS Undergraduate Research Symposium, Edinburg (TX), US

2024 SP (Kaelyn Calma) Mapping Europa's Surface Chemistry: Raman Spectroscopy and MS in Cryogenic Simulations, SBICS Undergraduate Research Symposium, Edinburg (TX), US

2024 SP (Nolan Salinas) Identification of Phenolic Acids & Flavonoids from Honey via Liquid Chromatography-Mass Spectrometry (LCMS), SBICS Undergraduate Research Symposium, Edinburg (TX), US

2024 SP (Leah Adame), SBICS Undergraduate Research Symposium, Edinburg (TX), US

2024 ST (Myrine Barreiro-Arevalo) Synthesis and Characterization of Vesicle Compartments to Study the Origins of Heredity, US and Canada JSPS Alumni Association gulf State Chapter regional meeting, San Antonio (TX), US

2024 SP (Nolan Salinas) Identification of Phenolic Acids & Flavonoids from Honey via Liquid Chromatography-Mass Spectrometry (LCMS), SBICS Undergraduate Research Symposium, Edinburg (TX), US

2024 ST (Ilankuzhali Elavarasan) Probing Surface Chemistry of Ocean Worlds using BOREAS – A Planetary Simulator, SIBCS seminar series, Edinburg (TX), US

2024 SP (Ilankuzhali Elavarasan) BOREAS – Probing Europa's Subsurface Ocean by Simulating Icy Surficial Conditions, NASA Planetary Science Technology Symposium by PESTO, Glenn Research Centre, Cleveland (OH), US

2024 SP (Kiara Garduño) Probing vesicle formation across the pH scale – Investigating primordial heredity mechanisms, SIBCS Undergraduate Symposium, Edinburg (TX), US

2024 SP (Mauricio Berazaluce) Synthesis of Catalytic Materials for Origin of Life studies, SIBCS Undergraduate Symposium, Edinburg (TX), US

2024 SP (David Hernandez) Developing Methods for Solid-Phase Extraction Purification and Liquid Chromatography - Mass Spectrometry Quantification of Aqueous Nucleotide Samples, SIBCS Undergraduate Symposium, Edinburg (TX), US

2024 SP (Sarah Walzer) Identifying Algal Lipids via LC-MS: Applications to Biofuel Production, SIBCS Undergraduate Symposium, Edinburg (TX), US

2024 SP (Ilankuzhali Elavarasan, Andrea Aldaba) BOREAS - Probing Europa's Subsurface Ocean by Simulating Icy Surficial Conditions, TAPS Meeting, San Antonio (TX), US

2024 SP (Mauricio Berazaluce) Probing Prebiotic Polymerization on Mineral Surfaces using Microfluidics, TAPS Meeting, San Antonio (TX), US

2024 SP (Ilankuzhali Elavarasan), BOREAS - Probing Europa's Subsurface Ocean by Simulating Icy Surficial Conditions, COS Annual Research Conference, Edinburg (TX), US

2024 SP (Myrine Barreiro-Arevalo) Synthesis and Characterization of Vesicle Compartments to Study the Origins of Heredity, COS Annual Research Conference, Edinburg (TX), US

2024 SP (Gabriella Garza) Prebiotic RNA oligonucleotide polymerization on mineral surfaces using microfluidics, COS Annual Research Conference, Edinburg (TX), US

2024 Self-oxidation of the atmospheres of rocky planets – implications for the origin of life, Astrobiology Science Conference (AbSciCon), Providence (RI), US

2023 Self-oxidation of the atmospheres of rocky planets – implications for the origin of life, American Geophysical Union (AGU), San Francisco (CA), US

2023 SP (Gabriella Garza) Prebiotic RNA oligonucleotide polymerization on mineral surfaces using microfluidics, UT System LSAMP Conference, El Paso (TX), US

2023 Do soluble phosphates direct the formose reaction towards pentose sugars?; Biennial European Astrobiology Conference (BEACON) 2023, European Astrobiology Institute (EAI), La Palma (Spain)

2023 SP (Gabriella Garza) Prebiotic RNA oligonucleotide polymerization on mineral surfaces using microfluidics, COS Annual Research Conference, Brownsville (TX), US

2018 An origins simulator - Origins Center's gamechanger 1; A roadmap for universal life workshop by the Lorentz Center, Leiden (Netherlands)

2018 Alkaline hydrothermal vents as electrochemical reactors driving an autotrophic origin of life; Earth-Life Science Institute (ELSI) 6th International Symposium, Tokyo (Japan)

2018 An origin of life simulator in order to mimic the emergence of proto-metabolism in the far-from-equilibrium conditions of Hadean Earth; Origins Center fellows kick-off meeting, Utrecht (Netherlands)

2017 Controversies on the origin of life; Astrobiology Society of Britain 7 (ASB07) meeting, Milton Keynes (United Kingdom)

2016 Controversies on the origin of life; AbGradE (Astrobiology Graduates in Europe) conference, Athens (Greece)

2015 Proto-metabolic flux leading to polymerisation at life's origin; Astrobiology Society of Britain 6 (ASB06) meeting, London (United Kingdom)

2015 Proto-metabolic flux leading to polymerisation at life's origin; European Astrobiology Network Association (EANA) conference, Noordwijk (Netherlands)