VIBHAW SHRIVASTAVA

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EDUCATION

2024 – Ongoing	**PhD in Environmental Engineering** Technion – Israel Institute of Technology, Haifa, Israel.	Pursuing
2021 – 2024	**M.Sc. in Marine Biology** University of Haifa, Mount Carmel, Israel.	(Percentage - 90 %)
2016 – 2020	**B.Sc. (Hons.) in Microbiology** Sam Higginbottom University of Agriculture, Technology and Sciences, India.	(CGPA - 6.90)

RESEARCH EXPERIENCE

Feb 2024 – May 2024	**Visiting Researcher** at Technion – Israel Institute of Technology, Haifa, Israel. Working with Dr. Naama Lang-Yona (PI - Atmospheric & Environmental Microbiology Lab) in collaboration with Prof. Fatma Öztürk (BAIBU, Turkey) on a project entitled *"Exploring Aerial Distribution of Antibiotic Resistance Genes: Association with Particle Size and Anthropogenic Emissions".*
Oct 2021 – Sep 2023	**Master's thesis** at University of Haifa, Israel under supervision of Prof. Laura Steindler (PI - Marine Microbiology Lab) on *"Exploring the Ecophysiology of a Marine Gammaproteobacteria Encoding Proteorhodopsin and RuBisCo".*
Jan 2020 – Mar 2020	**Bachelor's thesis** at National Center for Microbial Resources (NCMR-NCCS) in India under supervision of Dr. Avinash Sharma (Scientist- D) on a project entitled *"Isolation and Molecular Characterization of Microorganisms Isolated from Queen Maud Land, Antarctica".*
Sep 2019 – Nov 2019	A **short project** at Sam Higginbottom University of Agriculture, Technology and Sciences, Prayagraj, India under supervision of Mrs. Jane Claryn Benjamin (Assistant Professor) on *"Bacteriological Analysis of Recreational Water".*
May 2019 – Jun 2019	Worked as **Summer Intern** at Allele Life Sciences Private Limited, Noida, India under the guidance of Er. K.B. Singh (Director) on *"Pharmaceuticals Products Analysis".*
May 2018 – Jun 2018	Worked as **Summer Intern** at S.G.R.R University, Dehradun, India under the guidance of Dr. Manjusha Tyagi (Assistant Professor) and Ms. Preeti Juyal (Assistant Professor) on *"Microbiological Techniques and Bio-fertilizer Production".*

PUBLICATIONS

Sher, D., George, E.E., Wietz, M., **Shrivastava, V.**, et al. (2025) Collaborative metabolic curation of an emerging model marine bacterium, *Alteromonas macleodii* ATCC 27126. PLoS One. DOI: 10.1371/journal.pone.0321141

Jani, K., **Shrivastava, V.**, Sharma, P., et al. (2021) Easy access to antibiotics, antimicrobial resistance, and One Health in India. J. Epidemiol. Glob. Health. DOI: 10.1007/s44197-021-00008-2

Conference Abstracts:

Shrivastava, V., Dikmen, E., Sağırlı, E., et al. (2024) Aerial distribution of antibiotic resistance genes: Size association and anthropogenic emissions. *European Aerosol Conference*, Tampere, Finland.

Shrivastava, V., Weinstock, A., Avrani, S., Ninio, S., Beja, O., Gophna, U., Carmel, Y., and Lang-Yona, N. (2025) Aerial connectivity and survival strategies of microorganisms between water bodies. *Israel Society for Microbiology Conference*, Israel.

TECHNICAL SKILLS

- **Laboratory Management:** Proficient in adhering to good laboratory practices with strong organizational skills.
- **Microbiological Techniques:** Skilled in culturing/isolation, staining, high-throughput culturing (Dilution-to-Extinction Technique), and microscopy.
- **Biophysics/Biochemistry:** Experienced in flow cytometry (CytoFLEX S, Guava® easyCyte™), radiotracer techniques (Tri-Carb 2810-TR), microplate reader operation, and biochemical characterization.
- **Molecular Biology:** Proficient in DNA/RNA extraction, RFLP, PCR, gel electrophoresis, and sequencing.
- **Bioinformatics:** Skilled in primer design, proficient with NCBI, RAST, BioCyc, CARD, KBase, MEGA, KEGG.
- **Data Analysis:** Proficient in MS Excel, SPSS; experienced with R pipeline (DADA2).
- **Field Experience:** Experienced in research cruises, including sampling with CTD and Coriolis Compact Air Samplers.

AWARDS AND RECOGNITIONS

- **Master's Excellence Scholarship of USD 2400** from the University of Haifa, Israel for the session 2022-2023.
- **1st Position in Quiz Competition**, Society of Biotechnology, Jacob Institute of Biotechnology and Bioengineering, Sam Higginbottom University of Agriculture Technology and Sciences, Prayagraj, Uttar Pradesh, India.
- **Secured 2nd Position** in DNA Bar-Coding: An Application to Linnaeus Classification Workshop (Sep 30th - Oct 1st, 2019) organized by the Society of Microbiologists, Sam Higginbottom University of Agriculture Technology and Sciences, Prayagraj, Uttar Pradesh, India.
- **Educational Scholarship** for bachelor's degree from Government of Uttar Pradesh, India during the session 2017 – 2018.
- **State Level Winner, 20th State Children's Science Congress** (Nov 6th – 8th, 2012), Science for Society, Bihar in collaboration with SCERT & BCST, Bihar, India.

CONFERENCES/WORKSHOPS/COURSES ATTENDED

- **Aero-microbiology Summer School** (10th-22nd Aug 2025) at Arhus University, Denmark.
- **Israel Society for Microbiology (ISM) Annual Conference 2025** (22nd-23rd July 2025 at Smolarz Auditorium, Tel Aviv University, Israel.
- **Symposium in Oceanography** (28th May 2025) Bridging Ocean and Atmosphere: Dynamics and Ecosystem Interactions at The Fredy & Nadine Herrmann Institute of Earth Sciences, Hebrew University of Jerusalem, Israel.
- **18th IAAS Annual Meeting** (11th Feb 2024) – Israeli Association for Aquatic Sciences at Steinhardt Museum of Natural History, Tel-Aviv.
- **10-day Course on Marine Photosynthesis** (14th-23rd May 2023) – Interuniversity Institute of Marine Sciences, Eilat, Israel.
- **1-week Course on Global Changes in Marine Ecosystems** (15th-20th Jan 2023) – Interuniversity Institute of Marine Sciences, Eilat, Israel.
- **3-day Workshop on Genome-To-Metabolism** (31st Jan-2nd Feb 2023) – Data Science Research Centre, University of Haifa.
- **1-day Workshop on Career Development and Soft Skills** (13th Feb 2022) – Leon H. Charney School of Marine Sciences, University of Haifa, Israel.
- **9th Haifa Conference in Marine Sciences** (19th Jun 2022) – Leon H. Charney School of Marine Sciences, University of Haifa.
- **Recent Advances in Agriculture, Food Tech, and Human Health** (5th-6th Nov 2019) – Department of Molecular and Cellular Engineering, Sam Higginbottom University of Agriculture Technology and Sciences, Prayagraj, India.
- **Innovation and Transitional Dimension in Food, Health & Environmental Biotechnology** (9th-11th Mar 2018) – Department of Biotechnology, MNNIT, Prayagraj, India.
- **International Symposium on Microbes for Sustainable Development: Scope & Application – AMI 2017** (16th-19th Nov 2017) – BBAU, Lucknow, India.