Omid Shenavar

Shiraz, Iran

+989171399158

shenavar.omid@gmail.com

omidshenavar.github.io

A passionate plant pathologist with a Master's degree in phytobacteriology from SANRU University, where I specialized in studying bacterial pathogens, particularly *Xanthomonas* species. My curiosity about plant-microbe interactions has driven me to delve into various areas, including bioinformatics, molecular phylogeny, and pathogenicity studies. I've contributed to multiple research projects and publications, while also offering my English writing skills (IELTS score 7.5 August 2024) to help fellow students and researchers craft high-quality theses, articles, and academic papers for international journals.

Currently, I work as a pharmacy manager to ensure financial stability while staying committed to my scientific pursuits. I'm actively seeking opportunities where I can leverage my diverse skill set in bioinformatics, evolutionary biology, and scientific communication to make a meaningful impact.

Skills

Technical Skills

- **Molecular Phylogeny**: Experience in molecular identification and phylogenetic analysis of plant pathogens using gene sequencing techniques. Skilled in constructing phylogenetic trees to determine evolutionary relationships.
- **Bioinformatics**: Proficient in analysing genomic data, including Multi-Locus Sequence Analysis (MLSA) for species identification. Skilled in LDA for text mining and literature review in biological research. Familiar with tools like MrBayes, RAxML, BLAST, MEGA, and Clustal for sequence alignment and comparative genomics.
- **Pathogenicity Assays**: Hands-on experience with pathogenicity testing, virulence assays, and disease diagnostics in various plant species. Skilled in designing and conducting experiments to evaluate pathogen-host interactions.
- **Laboratory Techniques**: Proficient in molecular biology techniques such as PCR, DNA and Protein extraction, sequencing, microbial culturing, SDS-PAGE and electrophoresis. Familiar with sterile techniques and laboratory safety protocols.
- **Programming**: Knowledge of Python and R for data analysis, statistical modelling, and automation of bioinformatics tasks. Experience with libraries like Pandas, NumPy, and Biopython.
- **Linux & Open Source Software**: Passionate Linux user with experience in multiple distributions (Fav: Fedora). Skilled in system administration, shell scripting, and managing software installations using package managers (APT, Pacman, RPM).

Soft Skills

- **Scientific Writing:** Experience writing research articles, conference papers, and assisting students with academic writing.
- **Project Management:** Managed various research projects, coordinating tasks and meeting deadlines.
- **Leadership & Management:** Gained leadership skills from managing a pharmacy and supervising staff.
- **Problem Solving:** Strong analytical skills in troubleshooting both laboratory and computational issues.

Curriculum Vitae of Omid Shenavar

Languages

- English: IELTS 7.5 (Aug 2024)
- Persian: Native

Education

SEPTEMBER 2010 – JULY 2014

BSc/ Plant Protection / Shiraz University/ Shiraz, Iran

- Active member of the Editorial Board for the Plant Protection Association at Shiraz University. Received several commendations from the university's Vice-Chancellor for contributions to the student association.
- Served on the organizing committee for the Scientific Seminar on Evolution, led by Dr Hossein Masigol and Professor Mostowfizadeh-Ghalamfarsa, coordinating event logistics and activities.
- Achieved a top double-digit rank (68) in the national entrance exam for the M.Sc. program, securing a place at SANRU.

SEPTEMBER 2014 - SEPTEMBER 2017

MSc/ Plant Pathology / SANRU/ Sari, Iran

- Studied under the mentorship of Professor Heshmat Rahimian, focusing on plant pathogenic bacteria.
- Contributed to the design and content development for the Plant Pathology Association's magazine for one year.

Experience

2014 – 2016

IT Support Assistant (Student Employment)/ Sari, Iran

- Provided technical support to the university's IT department, handling computer repairs and maintenance across campus.
- Assisted students with system troubleshooting and resolved software and hardware issues, improving the university's IT services.
- Developed problem-solving skills through diagnosing and repairing various computer-related issues, contributing to a more efficient learning environment.

2017 – PRESENT

Freelance Writer, Consultant, and Translator

- Assisted M.Sc. and Ph.D. students with writing and consulting on their theses, academic articles, and research projects, focusing on plant pathology and related fields.
- Provided translation services, converting academic manuscripts from Persian to English for publication in international peer-reviewed journals, ensuring clarity and adherence to scientific standards.
- Conducted bioinformatics analyses, including genomic data interpretation, statistical modelling, and visualization for research studies, contributing to successful project outcomes.
- Collaborated with students to improve the quality of their research papers, offering guidance on structure, methodology, and presentation to enhance the chances of acceptance in reputable journals.

Pharmacy Manager / Shiraz, Iran

- Managed all aspects of pharmacy operations, including inventory management, staff training, and customer service, while ensuring compliance with health regulations.
- Developed and implemented process improvements to optimize pharmacy workflows, reduce wait times, and enhance patient satisfaction.
- Provided a stable source of income to support ongoing scientific endeavours and career goals in plant pathology.
- Demonstrated leadership and problem-solving skills by addressing operational challenges and implementing solutions that improved overall efficiency.

References

- **Prof. Dr Heshmat Rahimian**
  Professor of Plant Pathology and Microbiology
  Department of Plant Protection
  Sari Agricultural Sciences and Natural Resources University (SANRU), Sari, Iran
  Email: rahimian.h@gmail.com

- **Prof. Dr Reza Mostowfizadeh Ghalamfarsa**
  Professor of Plant Pathology
  Department of Plant Protection
  School of Agriculture, Shiraz University, Bajgah, Shiraz, Iran
  Email: rmostofi@shirazu.ac.ir

- **Dr Hossein Masigol**
  PostDoc, Leibniz Institute of Freshwater Ecology and Inland Fisheries
  Department of Experimental Limnology, Berlin, Germany
  Email: hossein.masigol@gmail.com

Publications

Journal Articles

- July 2023. Characterization of *Xanthomonas hortorum* isolates causing leaf spot on *Primula vulgaris*. **Omid Shenavar**, Heshmatolah Rahimian, Ali Barzegar. Plant Pathology.
- 2017. First report of leaf spot caused by *Colletotrichum coccodes* on Viola tricolor in Iran. T. Karamnejadi, A. Solhizadeh, **Omid Shenavar**, M.A. Tajick-Ghanbari. Journal of Plant Pathology.
- 2015. Computerized Interactive Keys for Identification of Fungi. **Omid Shenavar**, Mostowfizadeh-Ghalamfarsa Reza. Plant Pathology Science.

Conference Papers

- 2022. Multi Locus Sequence Analysis of *Candidatus* liberibacter asiaticus Isolates in Iran. Siavash Samavi, Mohammad Mehdi Faghihi, Abdolnabi Bagheri, Valiollah Babaeizad, **Omid Shenavar**, Mohsen Amiri Mazraie. 24th Iranian Plant Protection Congress.
- 2018. Investigation of Pathogenicity and Molecular Characteristics of *Staphylococcus* Strains Causing Bacterial Canker in Central Iran. Esmaeil Asadi, Heshmatolah Rahimian, **Omid Shenavar**, Valiollah Babaeizad, S. Mohamad Alavi. Proceedings of the International Congress of Science and Engineering.
- 2018. Isolation, Identification, and Phenotypic-Biochemical Characterization of *Staphylococcus warneri* Strains, the Causative Agents of Bacterial Canker in Iran. Esmaeil Asadi, Heshmatolah Rahimian, **Omid Shenavar**, Valiollah Babaeizad, S. Mohamad Alavi. Proceedings of the International Congress of Science and Engineering.
- 2017. Phenotypic, Molecular, and Pathogenicity Investigation of *Xanthomonas* Strains Causing Primula Leaf Spot. **Omid Shenavar**, Heshmatolah Rahimian, Ali Barzegar. First International Symposium on Applied Research in Agricultural Sciences, Natural Resources, and Environment.
- 2017. Molecular Identification and Taxonomic Position of *Xanthomonas* Strains Causing Bacterial Leaf Spot in Primula Based on *gltA* Gene Sequence Analysis. **Omid Shenavar**, Heshmatolah Rahimian, Ali Barzegar. First International Symposium on Applied Research in Agricultural Sciences, Natural Resources, and Environment.