

Prabin Shrestha

Woburn, MA

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Education

University of Memphis PhD, Biological Sciences	<i>Memphis, TN</i> <i>August 2016 to August 2021</i>
University of Memphis MS in Biostatistics	<i>Memphis, TN</i> <i>January 2019 to August 2021</i>
Tribhuvan University MSc. in Biotechnology	<i>Kathmandu, Nepal</i> <i>September 2010 to September 2013</i>
Tribhuvan University BSc. in Microbiology, Minor in Biostatistics	<i>Kathmandu, Nepal</i> <i>September 2006 to December 2009</i>

Work Experience

University of Tennessee Health Science Center <i>Data Analyst</i>	<i>Memphis, TN</i> <i>October 2021 – Present</i>
<ul style="list-style-type: none">Plan, design and conducts data analysis, interpretation, and presentation of clinical research's outcomes.Generates new research hypothesis/ideas for clinical research studies/projects.Use appropriate statistical techniques and interpret statistical results.Write manuscripts, reports, and present the statistical findings	
Department of Veterans Affairs medical center <i>Student Research Assistant</i>	<i>Memphis, TN</i> <i>May 2021 – October 2021</i>
<ul style="list-style-type: none">Cleaned, managed and analyzed data for chronic kidney disease (CKD) and end-stage renal disease (ESRD) related projects.	
University of Memphis <i>Graduate Teaching Assistant</i>	<i>Memphis, TN</i> <i>August 2016 – Current</i>
<ul style="list-style-type: none">Taught and supervised different biology labs.Made and graded assignments and exams; proctored and participated in the assessment process using a variety of methods and techniques.Prepared student progress reports and communicated with Lab coordinators and Professors for better performances of students.	
Nobel College (Pokhara University) <i>Department of Pharmacy</i> <i>Lecturer (part-time)</i>	<i>Kathmandu, Nepal</i> <i>March 2015 to July 2016</i>
Kantipur Valley College (Purvanchal University) <i>Department of Biotechnology</i> <i>Lecturer (part-time)</i>	<i>Lalitpur, Nepal</i> <i>May 2015 to August 2015</i>

Awards and Grants

Awards:

DR. S.P. Wong Award for best presentation in R-programming application, Department of Mathematics, University of Memphis, May 2018

Grants:

1. Ministry of Science and Technology (MoST), Kathmandu, Nepal.
Title: SCREENING OF LACCASE ACTIVITIES IN DIFFERENT FUNGI AND BACTERIA. March 2012.
2. University Grant Commission, Sanothimi, Bhaktapur, Nepal.
Master's Thesis support Grant: Title: PRODUCTION OPTIMIZATION, PURIFICATION AND CHARACTERIZATION OF LACCASE PRODUCED FROM *Ganoderma lucidum*. July 2013.

Certifications/Licenses

SAS Certified Base Programmer for SAS 9

Projects and Presentations

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| Bioinformatics project: | <ol style="list-style-type: none">i. <i>Mapkap1</i> regulated pathway can shape the susceptibility pattern to Group A Streptococcal infection.ii. Docking study of Pyrrolizidine Alkaloid on promoter sequence of synthetic DNA. |
| Biostatistics project: | <ol style="list-style-type: none">i. Physiological approach using Multivariable logistic regression to improve the efficacy of antibiotics.ii. Study of Triclosan induced efflux protein synthesis in <i>Pseudomonas aeruginosa</i> through linear mixed modelling.iii. Kaplan-Meier and Stratified Cox proportional hazard regressions-based project: Squamous histology increases the hazard and decreases the survival compared to other histology type. |
| Ongoing Project: | <ol style="list-style-type: none">i. Study of possible association/correlation between SARS COV 2 Neutralizing Ab Titer and other variables (Nepal).ii. Reverse transcriptase real time PCR assay of pooled RNA samples for mass SARS CoV-2 infection testing. |
| Presentations: | <ol style="list-style-type: none">i. Poster presentation on topic "How to reduce the use of antibiotics? – A physiological approach" in 31st Annual Student Research Forum Hosted by the Graduate School University of Memphis, 25th March 2019.ii. Poster presentation on topic "Isolation of ligninolytic bacteria and its effect in dye decolorization" in BIOCONFERENCE 2014 held at Mirabel Resort Hotel, Dhulikhel on July 25, 2014.iii. Poster presentation on topic "Production optimization, purification and characterization of laccase produced from <i>Ganoderma lucidum</i>" in BIOFUEL CONFERENCE held at Kathmandu University, Dhulikhel on December 15, 2013. |

Publications

1. **Shrestha, P.**, Zhang, Y., Chen, W. J., & Wong, T. Y. (2020). Triclosan: antimicrobial mechanisms, antibiotics interactions, clinical applications, and human health. *Journal of Environmental Science and Health, Part C*, 38(3), 245-268. <https://doi.org/10.1080/26896583.2020.1809286>

2. **Shrestha, P.**, Ni, J., & Wong, T. Y. (2020). Synergistic and antagonistic interactions of triclosan with various antibiotics in bacteria. *Journal of Environmental Science and Health, Part C*, 38(3), 187-203. <http://doi.org/10.1080/26896583.2020.1781494>
3. Pace, L. R., Wells, C. M., Awais, R., **Shrestha, P.**, Parker, R. D., & Wong, T. Y. (2018). Deleterious impact of smog on the intestinal bacteria In *MICROBIOME AND METABOLOME IN DIAGNOSIS, THERAPY, AND OTHER STRATEGIC APPLICATIONS* (Ed Faintuch/Faintuch), chapter 47. Elsevier Press. <https://www.sciencedirect.com/science/article/pii/B9780128152492000439?via%3Dihub>
4. **Shrestha, P.**, Joshi, B., Joshi, J., Malla, R., & Sreerama, L. (2016). Isolation and physicochemical characterization of laccase from *Ganoderma lucidum*-CDBT1 isolated from its native habitat in Nepal. *BioMed research international*, 2016. <https://doi.org/10.1155/2016/3238909>