# Suyog S. Kuwar

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## EDUCATION

**Max Planck Institute for Chemical Ecology, Jena, Germany** **01/2010 - 06/2016**

- PhD, Molecular Biology, Excellent (summa cum laude / with highest distinction)
- IMPRS International Max Planck Research School fellow

**Institute of Bioinformatics and Biotechnology, University of Pune India** **06/2004 - 03/2009**

- Master of Science in Biotechnology (5 years integrated)

## SKILLS

| Data Analysis | Molecular Biology | Languages | Other |
|---|---|---|---|
| • C-Programing-Basic<br>• R-Studio<br>• Transcriptome analysis<br>• Statistics<br>• Bioinformatics<br>• Mathematical modeling (basic)<br>• Python (intermediate) | • Phage display, PCR/qPCR<br>• Protein modifications/ engineering<br>• Basic separation techniques<br>• Western blot/pull down assay<br>• Enzyme Kinetics<br>• Microbiology, Animal and Plant cell culture technique<br>• Fermentation technology | • Marathi (Native)<br>• Hindi (Native)<br>• English (fluent)<br>• German (Basic) | • Project coordination<br>• Report preparation<br>• Public outreach<br>• Scientif writting<br>• Experimental design<br>• Adobe package<br>• Website development-Jekyll |

## RESEARCH EXPERIENCE

**L.V. H. Arts, Science and Commerce College, Panchavati, Nashik, India** **08/2019 - 04/2020**

**Department of Entomology and Nematology, University Florida, USA** **02/2017 - 12/2018**

**Post Doc, Department of Entomology, Iowa State University, USA** **10/2016 - 02/2017**

- "Analysis of next generation DNA seqeuncing data using linux command line tool for the modification of toxins derived from Bacillus thuringiensis for enhanced toxicity against selected insect pests"

**PhD, Max Planck Institute for Chemical Ecology, Jena, Germany** **01/2010 - 06/2016**

- "The adaptive response of the serine protease superfamily of the cotton bollworm *Helicoverpa armigera* to dietary protease inhibitors"
- Created a comprehensive resource of all the digestive proteases from *H. armigera, S. frugiperda* and *M. sexta*.
- Analyzed the transcriptome data using MetaboAnalyst2.0, MeV and Genespring Gx.
- Analyzed the proteomics data using PLGS software.

**M. Tech., Indian Institute of Science Education and Research, Pune** **04/2009 - 12/2009**

- "Mass spectrometry data analysis for phloem proteome of potato in response to pathogen challenge"

**M. Sc Project, National Chemical Laboratory, Pune, India** **06/2008 - 03/2009**

- "Identification and Characterization of *Helicoverpa armigera* gut amylases"
- Analyze enzyme assays using SPSS

**M. Sc Biotechnology, Savitribai Phule Pune University, Pune** **06/2006 - 03/2007**

## ACHIEVEMENTS

- ISCE Student Poster Award: for outstanding contribution as a poster in Melbourne, Australia, Aug 2013
- Selected to attend the Centre for Plant Integrative Biology (CPIB) summer school "Mathematical Modelling for Biologist 2010" at Sutton Bonington Campus, Nottingham, UK
- International Max Planck Research School Fellowship for PhD studies, Max Planck Institute for Chemical Ecology, Jena, Germany. January 2010
- Graduate Aptitude Test in Engineering 2009 Qualified with 84.45 percentile-All India Exam

## PUBLICATIONS

- Published 6 papers in peer reviewed international journals, e.g. BMC Genomics, Scientific reports etc.

## PROFESSIONAL SERVICES

**Article reviewing for:** PLOS ONE, Biology — Open Access Journal of Biochemistry & Molecular Biology, Life — Open Access Journal of Origins and Evolution of Life