

Anuj Sharma

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Postdoctoral Associate
Department of Plant Pathology
University of Florida

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EDUCATION

PhD in Plant Pathology

University of Florida

2021

Gainesville, FL, USA

BS in Agriculture

Tribhuvan University

2016

Chitwan, Bagmati, Nepal

RESEARCH EXPERIENCE

Postdoctoral Associate

University of Florida

(Supervisors: Dr. Jeffrey B. Jones and Dr. Erica M. Goss)

2021-Present

Gainesville, FL, USA

- ▶ Assembly and annotation of *Xanthomonas euvesicatoria* sequences.
- ▶ Phylogenetic analysis of *Xanthomonas euvesicatoria* strain collection.

Graduate Research Assistant

University of Florida

(Advisor: Dr. Jeffrey B. Jones)

2017-2021

Gainesville, FL, USA

- ▶ Understanding transcriptomic changes in citrus due to *Xanthomonas citri* infection.
- ▶ Study of mutation rate of *Xanthomonas* TAL effectors.
- ▶ Modelling the dispersal of *Xanthomonas perforans* in field and greenhouse.
- ▶ Understanding the role effector *XopJ2* in spread of *Xanthomonas perforans*.
- ▶ Mapping of novel bacterial spot resistance genes in pepper.

Research Intern

Nepal Agriculture Research Council

(Supervisor: Tirtha R. Pokharel)

2016-2017

Pokhara, Gandaki, Nepal

- ▶ National coordinated varietal trials of several vegetable crops.
- ▶ Evaluation of various coffee rust biocontrol strategies.
- ▶ Resistance breeding against late blight resistance in tomato.

Undergrad Research Assistant

Tribhuvan University

(Advisor: Dr. Sundar M. Shrestha)

2015-2016

Chitwan, Bagmati, Nepal

- ▶ Screening of finger millet accessions for blast resistance.
- ▶ Disease diagnosis for plant diagnostic clinic.

TEACHING EXPERIENCE

Guest Lectures

University of Florida

Gainesville, FL, USA

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| ▶ Epidemiology | (in Bacterial Plant Pathogens) | 2021 |
| ▶ Dissemination, survival, and ingress | (in Bacterial Plant Pathogens) | 2021 |
| ▶ Stramenopiles | (in Fungal Plant Pathogens) | 2020 |
| ▶ Identification of bacteria | (in Bacterial Plant Pathogens) | 2020 |

Teaching Assistant

University of Florida

Gainesville, FL, USA

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| ▶ Fungal Plant Pathogens (Lab support and lab introduction) | 2020 |
| ▶ Bacterial Plant Pathogens (Lab support and lab introduction) | 2020 |
| ▶ General Plant Pathology (Lab preparation and lab introductions) | 2019 |

Workshops

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| ▶ Plant Health 2020: Basic Bioinformatics in Plant Pathology | 2020 |
| ▶ USAID Youth in Agriculture Bootcamp: Web design for Agribusiness | 2017 |

AWARDS

APS Foundation Student Travel Award	2020
American Phytopathological Society	

IFAS Travel Award	2020
University of Florida, Institute of Food and Agricultural Sciences	

PPGSO Travel Award	2019
UF Plant Pathology Graduate Student Organization	

Graduate School Preeminence Fellowship	2017
University of Florida, Department of Plant Pathology	

Merit Scholarship Award	2012
Tribhuvan University, Institute of Agriculture and Animal Science	

PROFESSIONAL AFFILIATIONS

American Phytopathological Society	2017-Present
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Florida Phytopathological Society	2017-Present
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UF Plant Pathology Graduate Student Organization	2017-2021
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UF Plant Pathology Graduate Student Organization (Treasurer)	2019-2020
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APS Graduate Student Arts Committee	2019-2020
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PUBLICATIONS

RESEARCH PAPERS

Sharma A, Timilsina S, Abrahamian P, Minsavage GV, Colee J, Ojiambo PS, Goss E, Vallad GE and Jones JB. 2021. Need for speed: Bacterial effector XopJ2 is associated with increased dispersal velocity of *Xanthomonas perforans*. Environmental Microbiology. doi.org/10.1111/1462-2920.15541.

Abrahamian P, **Sharma A**, Jones JB, and Vallad GE. 2020. Dynamics and spread of bacterial spot epidemics in tomato transplants produced for field production. Plant Disease 105(3):566-575. doi.org/10.1094/PDIS-05-20-0945-RE.

Bhatta A, **Sharma A**, Gautam P, Subedi B, Paudel M, Pariyar K and Mishra S. 2017. Resistant and susceptible response of finger millet to seedling blast. (*Pyricularia grisea* SACC.). IJIRR 4(12):4804-4809.

Sharma A, Ference CF, Shantharaj D, Baldwin EA and Jones JB. Transcriptomic analysis of changes in *Citrus × microcarpa* gene expression post *Xanthomonas citri* subsp. *citri* infection. [In Preparation]

REVIEW PAPERS

Sharma A, Jones JB and White FF. Recent Advances in Developing Disease Resistance in Plants. F1000Research 2019, 8(F1000 Faculty Rev):1934. doi.org/10.12688/f1000research.20179.1.

Osdaghi E, **Sharma A**, Goss EM, Abrahamian A, Newberry EA, Potnis N, Carvalho R, Choudhary M, Paret ML, Timilsina S, Vallad GE and Jones JB. A Centenary for Bacterial Spot of Tomato and Pepper. Molecular Plant Pathology. [In Preparation]

BOOK CHAPTERS

Sharma A, Timilsina S and Jones JB. Initial Identification of Common Bacterial Genera. In *Laboratory Guide for Identification of Plant Pathogenic Bacteria, 4th Edition*. American Phytopathological Society (APS Press). [In Preparation]

Ham JH, **Sharma A**, Jones JB and Chun W. *Burkholderia* and *Robbsia*. In *Laboratory Guide for Identification of Plant Pathogenic Bacteria, 4th Edition*. American Phytopathological Society (APS Press). [In Preparation]

Sharma A and Jones JB. Bacterial Spot. In *Compendium of Pepper Diseases, 2nd Edition*. American Phytopathological Society (APS Press). [In Preparation]

PRESENTATIONS

Role of AvrBsT in dispersal of *Xanthomonas perforans* and severity of bacterial spot of tomato. Plant Health 2019, Cleveland, OH, USA.

Characterization of bacterial spot resistance gene against *Xanthomonas gardneri* in Hungarian pepper. 16th Biennial Florida Phytopathological Society Meeting, Lake Alfred, FL, USA. 2019.

POSTERS

Genetic mapping of bacterial spot resistance gene against *Xanthomonas gardneri* in Hungarian pepper. Plant Health 2020.

REFERENCES

References will be provided upon request.