

Ram Neupane

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EDUCATION

- 2016 **Ph.D.** Applied Mathematics with emphasis in Mathematical Biology/Ecology, Utah State University, Logan, Utah, USA
Advisor: Dr. James A. Powell
Dissertation: “*Modeling Seed Dispersal and Population Migration Given a Distribution of Seed Handling Times and Variable Dispersal Motility: Case Study for Pinyon and Juniper in Utah*”
- 2009 **M.A.** Mathematics, University of Louisville, Louisville, Kentucky, USA
Advisor: Dr. Patricia B. Cerrito
Project Report Title: “*Data Mining to Investigate the Treatment of Asthma*”
- 1999 **M.A.** Mathematics, Central Department of Mathematics, Tribhuvan University, Kathmandu, Nepal
- 1996 **B.Ed.** Mathematics (One year teacher-training for Secondary Level), Saptagandaki Multiple Campus, Bharatpur, Nepal
- 1994 **B.A.** Mathematics (Major), Economics (Minor), Birendra Multiple Campus, Tribhuvan University, Bharatpur, Nepal

TEACHING EXPERIENCE

University of Wisconsin-Whitewater, Whitewater, Wisconsin

- 2016- **Lecturer**, taught Finite Mathematics for Business and Social Sciences, Precalculus and Fundamental of College Algebra

Utah State University, Logan, Utah

- 2016 **Instructor**, taught Calculus I, Calculus II and Differential Equations (worked as a grader)
- 2011-2015 **Graduate Instructor**, taught Calculus III (1 semester), Calculus I (5 semesters), Trigonometry (1 semester), College Algebra (3 semesters), Intermediate Algebra (1 semester)
- 2014 **Proctor**, Utah State Mathematical Contest, Logan, Utah
- 2010-2011 **Recitation Leader**, College Algebra (4 semesters, 12 sections)

University of Louisville, Louisville, Kentucky

- 2007-2009 **Tutor**, Calculus, College Algebra, Trigonometry and Statistics (4 semesters)
- 2008 **Grader**, Calculus

Patan Multiple Campus, Tribhuvan University, Patan, Nepal

- 2001–2007 **Lecturer**, Advanced Calculus, Linear Algebra, Two- and Three-Dimensional Geometry and Ordinary Differential Equations

Shanti Higher Secondary School, Lamjung, Nepal

- 1999–2001 **Faculty and Coordinator of Mathematics**, Higher Secondary and Secondary Mathematics,

Teaching Experience (Continued)

Other responsibilities: Supervised high school math teachers and served for higher secondary mathematics curriculum development.

Shree Balkumari Kanya Secondary School, Bharatpur, Nepal
1994–1997 **Mathematics Teacher**, Secondary, Lower Secondary, and Primary Mathematics

RESEARCH INTERESTS

Mathematical ecology, mathematical biology, applied mathematics with an emphasis on seed dispersal and mathematics of invasion

PUBLICATIONSJournals

- 2015 **Neupane, R. C., and Powell, J. A.**, Mathematical Model of Active Seed Dispersal by Frugivorous Birds and Migration Potential of Pinyon and Juniper in Utah. *Journal of Applied Mathematics* 6(9): 1506–1523, 2015, <http://dx.doi.org/10.4236/am.2015.69135>
- 2015 **Neupane, R. C., and Powell, J. A.**, Invasion Speeds with Active Dispersers in Highly Variable Landscapes: Multiple Scales, Homogenization, and the Migration of Trees. *Journal of Theoretical Biology* 387:111-119, 2015, <http://dx.doi.org/10.1016/j.jtbi.2015.09.029>
- In preparation **Neupane, R.C. and Powell, J.A.** “Connecting Regional-Scale Tree Distribution Models with Seed Dispersal Kernels,” manuscript in preparation with colleagues from Wildland Resources, Utah State University

Book Chapter

- 2010 “Outcomes Research in the Treatment of Asthma” in P. B. Cerrito (ed.), *Cases on Health Outcomes and Clinical Data Mining: Studies and Frameworks* (pp. 78–99), Hershey, PA: IGI Publishing

SELECTED PRESENTATIONS

- 2017 “Connecting regional-scale tree distribution models with seed dispersal kernels,” Joint Mathematics Meetings (JMM), Atlanta, Georgia, January 4-7, 2017
- 2016 “Birds-Driven Dispersal of Trees: Multi-Scale Modeling and Analysis,” Joint Mathematics Meetings (JMM), Seattle, Washington, January 6-9, 2016
- 2015 “Invasion Speeds with Active Dispersers in Highly Variable Landscapes: Multiple Scales, Homogenization, and the Migration of Trees,” Society of Mathematical Biology (SMB) Annual Conference, Atlanta, Georgia, June 30–July 3, 2015
- 2015 “Invasion Speeds with Active Dispersers in Highly Variable Landscapes: Multiple Scales, Homogenization, and the Migration of Trees,” Student Research Symposium (SRS), Office of Research and Graduate Studies, Utah State University, Logan, Utah, April 9, 2015

Selected Presentations (Continued)

- 2014 “Mathematical Model of Active Seed Dispersal by Frugivorous Birds and Speed of Invasion,” MAA Intermountain Conference, Utah Valley University, Orem, Utah, March 28–29, 2014

POSTER PRESENTATION

- 2008 **Neupane, R. C., and Cerrito, P. B.** “Data Mining to Investigate the Treatment of Asthma,” SAS Data Mining Conference M2008, Las Vegas, Nevada, October 2008

WORKSHOPS, SEMINARS, AND PROFESSIONAL DEVELOPMENT

- 2017 Workshop on “Signature Assignment Scoring Workshop”, Department of Mathematics, University of Wisconsin- Whitewater, Whitewater, January 11, 2017
- 2017 Workshop on “Joint Mathematics Meetings (JMM) 2017 Precalculus Workshop”, Atlanta, Georgia, January 6, 2017
- 2017 Workshop on “Joint Mathematics Meetings (JMM) 2017 College Readiness and Retention Workshop” Atlanta, Georgia, January 6, 2017
- 2012 Seminar on “How to write standard scientific papers” (weekly, summer-long; attended and assisted Dr. James Powell as graduate research assistant), Utah State University Department of Mathematics and Statistics, Logan, Utah, 2012
- 2010 International Teaching Assistants Workshop, Utah State University, Logan, Utah August 16–25, 2010
- 2008 Communication in English (one-semester course), University of Louisville, Louisville, KY
- 2006 Seminar on Mathematical Sciences and Its Applications, Central Department of Mathematics, Tribhuvan University, Nepal, and Nepal Mathematical Society, September 20–21, 2006
- 2005 Seminar on Applicable Mathematics, Central Department of Mathematics, Tribhuvan University, Nepal, and Nepal Mathematical Society, September 20–21, 2005
- 2002 Seminar on Applicable Mathematics, Central Department of Mathematics, Tribhuvan University, Nepal, September 19–20, 2002

LEADERSHIP & SERVICE

- 2015–present Lifetime Member, Association of Nepalese Mathematicians in America (ANMA)
- 2012–present Member, Society of Industrial and Applied Mathematics (SIAM)
- 2010–2016 Member, Applied Math Club, Department of Mathematics and Statistics, Utah State University, Logan, Utah
- *Assisted in fund raising activities such as teaching Calculus, College Algebra, and Trigonometry review at the beginning of the semesters
- *Helped organize educational competitions such as integration quizzes
- *Attended seminars organized by the Club and host speakers
- 1997 Lifetime Member, Nepal Mathematical Society

ASSISTANTSHIPS AND AWARDS

- 2016 Academic staff travel fund (\$1500.00), Joint Mathematics Meetings, Annual Conference, Atlanta, Georgia, January 4-7, 2017
- 2015 Student travel fund (\$1400.00), Joint Mathematics Meetings, Annual Conference, Seattle, Washington, January 6-9, 2016
- 2015 Student travel fund (\$900.00), Society of Mathematical Biology (SMB) Annual Conference, Atlanta, GA, June 30–July 3, 2015
- 2015 Utah State University Office of Research and Graduate Studies Dissertation Fellowship (Spring and Summer, \$27,386.48)
- 2010–2015 Graduate Teaching Assistantship, Utah State University, Logan, Utah
- 2014 Student travel fund, MAA Intermountain Meeting, Orem, Utah
- 2008 Student travel fund (\$600.00), SAS Data Mining Conference M2008, Las Vegas, Nevada
- 2007–2009 Graduate Teaching Assistantship, University of Louisville, Louisville, Kentucky
- 1998, 1999 Intelligence Educational Scholarship, Central Department of Mathematics, Tribhuvan University, Kathmandu, Nepal (during M.A.)
- 1993, 1994 Intelligence Educational Scholarship, Birendra Multiple Campus, Bhatatpur Nepal (during B.A.)

SKILLS

Computer skills

MATLAB, Maple, LaTeX, SAS, MS Word, Excel, and PowerPoint

Instructional Technology

WebAssign, Canvas, Blackboard, WileyPLUS, MyMathLab

Languages

Fluent in English, Nepali, and Hindi

VISA Status

H-1B