Curriculum Vitae

Dr. Kiran Kumar Gurubilli

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Personal Information:

Name	:	Dr. Kiran Kumar Gurubilli
Gender	:	Male
Qualification	:	M.Sc., Ph.D.
Reservation	:	BC-D, Turpu Kapu
Father's Name	:	Challam Naidu
Mother's Name	:	Indhumati
Marital Status	:	Married
Citizenship	:	Indian
Research Interests (Broad Area)	:	Differential Equations, Mathematical Simulation, Mathematical Biology, Mathematical Bio-economics and optimal control theory.
Specialization	:	Dynamical Systems, Renewable Resource Dynamics.
Name of the Ph.D Supervisor	:	Prof. P.D.N. Srinivasu

Title of Ph.D Thesis:

Optimal Management of Renewable Resources Subjected to Allee Effect in a Seasonally Varying Environment.

Academic Qualifications:

Ph.D. (2011)	:	Andhra University, Visakhapatnam, India. Specialization: Dynamical Systems, Renewable Resource Dynamics.
B.Ed. (2005)	:	Pydah College of Education (Visakhapatnam), Andhra University, India. Specialization: Mathematics, Physical Science.
M.Sc. (2003)	:	University of Hyderabad (HCU), Hyderabad, India. Specialization: Mathematics.
B.Sc. (2001)	:	Arts College (Srikakulam), Andhra University, India. Specialization: Mathematics, Physics, Chemistry.
Intermediate (1998)	:	Chaitanya Co-Operative Junior College, Srikakulam, India. Specialization: Mathematics, Physics, Chemistry.
S.S.C. (1996)	:	D.M. High School, Srikakulam, India.

M.Sc. Courses (Mathematics)

Real Analysis, Measure and Integration Theory, Complex Analysis, Functional Analysis, Topology, Linear Algebra, Abstract Algebra, Ordinary Differential Equation, Partial Differential Equation, Numerical Analysis, Number theory and Cryptology, Graph Theory, Discrete Dynamical Systems, Lie Groups and ODE, Wavelet Analysis, Calculus of Variations and Integral Equations.

Advance Courses (Mathematics)

- Mathematical Biology,
- Mathematical Bio-economics

Computational Proficiency:

Operating Systems	:	Windows, Linux
Programming Languages	:	C, C++
Mathematical softwares	:	Maple, Matlab
Typing software	:	LaTeX

Research Experience:

August 2012 - December 2013	*Post Doctoral Fellow* NBHM	Department of Mathematics and Statistics, IIT Kanpur, Kanpur.
August 2009 - July 2012	*Senior Research Fellow* CSIR Fellowship	Department of Mathematics, Andhra University, Visakhapatnam.
July 2007 - July 2009	*Junior Research Fellow* CSIR Fellowship	Department of Mathematics, Andhra University, Visakhapatnam.

Teaching Experience:

January 2014 - Till to date	*Assistant Professor (c)*	Dr. B.R.Ambedkar University, Srikakulam, India.
December 2011 - May 2012	*Guest faculty*	Dr. B.R.Ambedkar University, Srikakulam, India.
July 2005 - March 2007	*Lecturer*	Sri Shirdi Sai Degree College, Bobbili, Vizianagaram District, India.
July 2003 - June 2004	*Lecturer*	Sri Shirdi Sai Degree College, Bobbili, Vizianagaram District, India.

Fellowships/Scholarships/Eligibility Tests:

- Qualified **APPSC Assistant Professors Eligibility Test** for the Year (2018).

- **APSET**(Andhra Pradesh State Eligibility Test) for the Year (2017).

- **National Board of Higher Mathematics (NBHM) Post Doctoral Fellowship** - 2012.

- **UGC - Dr. D.S. Kothari Post Doctoral Fellowship**, awarded in 2012 (Did not avail).

- **Graduate Aptitude Test in Engineering (GATE)** - (2007) (Did not avail).

- **Graduate Aptitude Test in Engineering (GATE)** - (2006) (Did not avail).

- **CSIR-SRF** in the Department of Mathematics, AU from June, 2009 to May, 2012.

- **CSIR-JRF** in the Department of Mathematics, AU from June, 2007 to May, 2009.

- **CSIR-UGC (NET)**(Council of Scientific and Industrial Research) for the Year (2006).

Academic Achievements and Awards:

- Received **Best Researcher Award in the year 2020**, 6th International Awards 0n **Engineering, Science and Medicine 20 & 21 - June - 2020**, VD GOOD Professional Association, Chennai, India.

- Received **Certificate of Merit for the Award as a token of appreciation for rendering dedicated and distinguished services to the university** in 71st Republic Day Celebrations - 2020, Dr. B.R. Ambedkar University, Srikakulam, Andhra Pradesh.

- Received **Dr. K.V. Rao Young Scientist Research Award in Mathematics for the year 2010** (Special Award), Dr. K.V. Rao Scientific Soceity, Hyderabad.

- Received Merit certificate in Mathematical Olympiad at M.Sc. level conducted by Andhra Pradesh Association of Mathematics Teachers (A.P.A.M.T.) in 2001.

Administrative Experience:

- Serving as **Head/Course Co Coordinator**, Department of Mathematics, Dr.B.R.Ambedar University, Srikakulam from 21st March, 2022 to till to date.

- Internal Auditing committee member for the academic year 2020-21, Dr. B.R. Ambedkar University, Srikakulam.

- Served as **Assistant Principal**, College of Science, Dr.B.R.Ambedar University, Srikakulam during from 11th February, 2021 to 10th February, 2022.

- Internal Auditing committee member for the academic year 2019-20, Dr. B.R. Ambedkar University, Srikakulam.

- Served as Observer for BA/BSc/BCom Degree Examinations and B.Ed Examinations, Dr.B.R.Ambedar University, Sriakulam.

- Served as **Head/Course Co Coordinator**, Department of Mathematics, Dr.B.R.Ambedar University, Srikakulam during from October, 2018 to January, 2020.

- Served as polling officer, General Election to the house of people and Andhra pradesh legislative Assembly, 2019.

- Associate member in Department post graduation Board of Studies (PG BOS), Department of Mathematics, Dr.B.R. Ambedkar University, Srikakulam.

- Served as **Head/Course Co Coordinator**, Department of Mathematics, Dr.B.R.Ambedar University, Srikakulam during from January, 2014 to October, 2017.

- Served as Squad (Route Officer) for BA/BSc/BCom Degree Examinations, Dr.B.R.Ambedar University, Sriakulam.

Workshops/Conferences/Seminars Organized:

- Organized (as a Convener) a Two-Day National Seminar on "**Recent Developments in Mathematics and Its Applications - 2018 (RDMA - 2018)**" at Dr.B.R. Ambedkar University, Srikakulam, Andhra Pradesh from 21st December, 2018 to 22nd December, 2018.

- Organized **Mathematics Talent Test - 2018** for under graduate students, B.Tech students on the eve of 131st birth anniversary of Srinivasa Ramanujan.

Papers presented in Conference/Symposium:

- Presented a paper titled "Periodic solutions for an equation governing dynamics of a renewable resource subjected to additive Allee effect in a seasonally varying environment" in **5th Andhra pradesh Science Congress [APSC - 2019]**, organized by Dr. B.R. Ambedkar University, Srikakulam India, 28-30 November, 2019.

- Presented a poster titled "Bio-economics of Renewable Resource subjected to Strong Allee effect" in **International Conference on Mathematical Biology**, organized by IISc-Bangalore, Karnataka, India, 4-7 July, 2011.

- Presented a paper titled "Periodic solutions for an equation governing dynamics of a renewable resource subjected to Allee effects" in **Symposium on Mathematical Ecology**, organized at IISER-Kolkata, India, 13-14 December, 2010.

Online Faculty Development Programmes(FDPs), Workshops and Webinars:

Aug2020	Five Day National Webinar on Fluid Dynamics from Mathematicians Viewpoint	Department of Mathematics, School of Science, GITAM (Deemed to be University), Hyderabad during 9 - 13 August, 2020..
Aug2020	A One week Online International Faculty Development Program on Recent Advances in Mathematics and Statistics	Jointly Organized by Department of Mathematics, Institute of Science and Center for Learning and Sustainability, GITAM (Deemed to be University), Visakhapatnam during 3 - 8 August, 2020.
July2020	A unique three weeks(21 days) FDP for Science, Engineering and Arts faculty on Role of Academia in Sustainable Development	Dr. B. R. Ambedkar University, Sriakulam, Andhra Pradesh, India during 25th June, 2020 to 14th July, 2020.
June2020	International Webinar on Recent Advances in Mathematics& Covid - 2019	Department of Mathematics and Statistics & IQAC, St. Joseph's College for Women(A) Visakhapatnam, Andhra Pradesh, India.
June 2020	Online 30-Days Faculty Development Programme on ExcelR e-learning - Data Science	Andhra Pradesh State Skill Development Corporation, Andhra Pradesh.
June 2020	Online A Two Day National Webinar (FDP) on "Analytical and Diagnostic Tools in Chemical and Life Sciences"	Andhra University in association with AP Academi of Sciences.
June 2020	One Week online Faculty Development Programme	BPSU UGC - HRDC.
May 2020	Online 5-Day Faculty Development Programme on Out Based Education	St. Joseph's Degree College, Sunkesula Road, Kurnool, Andhra Pradesh.

May 2020	Online Faculty Development Pro-gramme on Artificial Intelligence	Department of Information Technology, SIR C.R Reddy College of Engineering in association with National Youth Council of India and BrainOVision Solutions India Pvt. Ltd.
May 2020	Two Day National Level Workshop on Modern Methods For Teaching - learn-ing Practices	Krishna Uniersity, Andhra Pradesh, India in associ-ation with Andhra Pradesh State Council of Higher Education (APSCHE).

Workshops/Conferences/Seminars Attended:

International:

July 2011	International Conference on Mathemat-ical Biology	IISc-Bangalore, Karnataka, India.
August 2010	International Congress of Mathematics, ICM-2010	Hyderabad, India.

National:

November 2019	3-Day National Level Workshop as Fac-ulty Development Programme on Re-search Methodology-Mechanism for Ef-fective Implementation	Government Degree College, West Godavari, Andhra Pradesh, India.
February 2019	Intellectual Property Rights and Patents (IPR&P)	College of Science, Dr. B.R.Ambedkar Uni-versity, srikakulam, India in Collaboratioin with National Research Development Corpo-ration (NRDC), New Delhi.
February 2019	International work shop on Water, Air, Sanitation and Hygiee Attitudes and Practices (WASH-2019)	Department of Biotechnology, Or-ganic chemistry and Social work, Dr. B.R.Ambedkar University, srikakulam, India.
January 2019	7-Day Faculty Development Pro-gramme (FDP) on Rural Community Engagement	Dr.B.R. Ambedkar University and Mahatma Gandhi National Council of rural educa-tion,Delhi
February 2018	National Science Day -2018	Dr. B.R.Ambedkar University, srikakulam, India in Collaboratioin with National Re-search Development Corporation (NRDC), New Delhi and PULSUS, Hyderabad.
May 2017	Essence of Mathematics and Engineer-ing Applications (EMEA)	Department of Mathematics, KL University, Vaddeswaram, Guntur, Andhra Pradesh, In-dia.
May 2015	Summer Course in Indian Culture & Spirituality	Bangalore, Chikkaballapur, Karnataka, India.

December 2014	Recent Advances in Mathematics and Computational Tools for Engineering Applications (RAMCEA)	GMR Institute of Technology, Rajam, Andhra Pradesh, India.
July 2013	Workshop on Mathematical Epidemiology and Differential Equations	IIT Patna, Patna, Bihar, India.
October 2012	Workshop on Differential Equations in Ecology and Epidemiology	IIT Roorkee, Roorkee, Uttarakhand, India.
December 2010	Symposium on Mathematical Ecology	IISER-Kolkata, Mohanpur, Nadia, West Bengal, India.
December 2010	Workshop on Mathematical Ecology	IISER-Kolkata, Mohanpur, Nadia, West Bengal, India.
June 2008	National Workshop on Topological Dynamics, Differential Equations and Applications	CRR Advanced Institute of Mathematics, Statistics & Computer Science, University of Hyderabad, Hyderabad, India.
January 2008	95th Indian Science Congress Association	Andhra University, Visakhapatnam,, India.
November 2007	National Conference on Recent Developments in Mathematics and Applications	Department of Mathematics, Andhra University, India.

List of Publications (International Journals):

1. Seshadev Padhi, P.D.N. Srinivasu, **G. Kiran Kumar**, Periodic solutions for an equation governing dynamics of a renewable resource subjected to Allee effects, Nonlinear Analysis: Real World applications 11(2010), PP. 2610 - 2618. (Impact factor: 2.317, Elsevier Journal)

2. P.D.N. Srinivasu, **G. Kiran Kumar**, Optimal Management of a Renewable Resource Subjected to strong Allee effect in a Periodically Fluctuating Environment, Differential Equations and Dynamical Systems, 22(4)(2014), PP. 397 - 412 (DOI: 10.1007/s12591-013-0185-3) (Springer Journal)

3. P.D.N. Srinivasu, **G. Kiran Kumar**, Bio-economics of a Renewable Resource subjected to Strong Allee Effect, Communications in Nonlinear Science and Numerical Simulations, 19(6)(2014), PP. 1686 - 1696 (DOI: 10.1016/j.cnsns.2013.10.016) (Impact factor: 3.239, Elsevier Journal))

4. **G. Kiran Kumar**, P.D.N. Srinivasu, Malay Banerjee, Global dynamics of a prey-predator model with Allee effect and additional food for the predators, International Journal of Dynamics and Control, Volume 11(3)(2017), PP. 903 - 916 (DOI: 10.1007/s40435-016-0234-1). (Springer Journal)

5. P.D.N. Srinivasu, **G. Kiran Kumar**, Birku Demewoz, Periodic solutions for an equation governing dynamics of a renewable resource subjected to additive Allee effect in a seasonally varying environment, Functional Differential Equations, Volume 24(2017), No.3-4, PP. 137 - 155.

6. B. Srinivasa Rao, G.N.V. Kishore, **G. Kiran Kumar**, Common coupled fixed point theorems in C algebra valued Fuzzy soft metric space with appplications, Research Journal of Science & IT Management - RJSITM, Volume 8(2)(2018). (Impact factor: 7.204, UGC Approved Journal)

7. B. Srinivasa Rao, GNV. Kishore, **G. Kiran Kumar**, Geraghty type Contraction and Common Coupled Fixed Point Theorems in Bipolar Metric Spaces with Applications to Homotopy, International Journal of Mathematics and Trends and Technology, Volume 63(1)(2018), PP. 25 - 34. (Impact factor: 2.53, UGC Approved Journal)

8. P.D.N. Srinivasu, **G. Kiran Kumar**, Existence and Stability of two positive periodic solutions for an equation governing dynamics of a Renewable Resource subjected to Strong Allee Effect. (Communicated for publication)

Academic References:

- **Dr. P.D.N. Srinivasu (Ph.D. Supervisor)**

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