

Vijaya Gopal Kakani

Professor and Chair, Department of Agronomy, University of Florida
 3105A McCarty Hall B, PO Box 110500, Gainesville, FL, 32611-0500
 Phone: 352-273-3408; Email: vgkakani@ufl.edu

EDUCATION

- Feb 2020** **LEAD 21 CLASS 15** (<http://lead-21.org/>)
 Leadership in land grant institutions and their strategic partners. A year-long training in areas of Assessment, Building Effective teams, Competing Commitments, Leadership Dilemmas, Leading Change and Organizational change, Collaboration in Higher Education, Managing conflict, Project Planning.
- April 2001** **Ph.D. in Agriculture (Crop physiology and Modeling)**
 Department of Agriculture, University of Reading, Reading, UK (**Felix Scholar**)
 Thesis title: Quantifying effects of high temperature and water stress in groundnut (*Arachis hypogaea* L.).
 Internationally recognized PhD research program in collaboration with ICRISAT Asia Center. Identified traits for water stress and heat tolerance in groundnut and developed algorithms to improve groundnut simulation models. Developed screening methods for drought and heat tolerance that are widely implemented in other crops.
- Aug 1994** **M.Sc. (Agriculture): Agronomy**
 Andhra Pradesh Agricultural University, Hyderabad, India. Thesis title:
 Comparative performance of split-planting of tillers and different methods of raising rice (*Oryza sativa* L.).
- Jul 1992** **B.Sc. (Agriculture)**
 Andhra Pradesh Agricultural University, Hyderabad, India.

EMPLOYMENT

- 2022-Till date** Professor and Chair, Agronomy Department, University of Florida (Full time)
- 2022-2022** Professor and Interim Head, Crops, Energy and Climate, Sarkeys Distinguished Professor, Warth Distinguished Professorship, Department of Plant and Soil Sciences, Oklahoma State University (Full time)
- 2019-2021** Professor, Crops, Energy and Climate, Sarkeys Distinguished Professor, Warth Distinguished Professorship, Department of Plant and Soil Sciences, Oklahoma State University (Full time)
- 2014-2019** Associate Professor and Warth Distinguished Professorship, Bioenergy Crop Production, Department of Plant and Soil Sciences, Oklahoma State University (Full time)
- 2008-2014** Assistant Professor, Bioenergy Crop Production, Department of Plant and Soil

Sciences, Oklahoma State University (Full time)

- 2006-2008** Post-Doctorate Associate, Department of Agronomy, University of Florida, FL, USA. (Full time)
- 2001-2006** Postdoctoral Associate, Department of Plant and Soil Sciences, Mississippi State University, Mississippi State, MS, USA. (Full time)
- 1995-1997** Research Associate, Groundnut Physiology, ICRISAT Asia Center, Patancheru, Hyderabad, India. (Full time)

TEACHING EXPERIENCE

PLNT 4573* (3 credits) – Spring Odd year- A split (Senior and Graduate) level course on Bioenergy Feedstock Production – In-Class.

PLNT 5293 (3 Credits) – Fall Odd Year - A graduate level course titled “Plant Responses to Water Stress” – In-Class

PLNT 4123 (3 Credits) – Spring Even Year - A undergraduate level course titled “Plant-Environment Interactions” – In-Class

PLNT 5313 (3 credits) – Fall Even Year – A graduate level course titled “Simulations Models in Research, Management, and Policy” – In-class.

STUDENTS GRADUATED

2020 - HARDEEP SINGH PhD in Crop Science Postdoc at USDA-ARS/KSU

2019 –JHANSY REDDY KATTA – MS in Plant Science

2017 –DHAKAL, KUNDAN – PhD in Crop Sciences –Postdoc at Noble Research Center

2016 – POUDEL, PRATISHTHA– MS in Plant Science –PhD at Oklahoma State University

2013 – WAGLE, PRADEEP – Ph.D. Crop Science – Soil Scientist at USDA-ARS, El Reno

2013 – FOSTER, ANSERD – Ph.D. Crop Science - Extension Agronomist at Kansas State Uni

2012 – ALL, MUAID – PhD in Crop Science (Co-Advisor)

2012 – FAHEJ, MOHAMED – PhD in Plant Science – Dean at El-Mergib Universty, Libya

2012 – PANDEY, ARJUN – MS in Plant Science –PhD Montana St. Uni.

2011 – SRIPATHI, RAGHUVVEER – MS in Plant Science –PhD at Uni. Of Wisconsin

2011 – TIAMIYU, ADETOLA – MS in Plant Science

2010 – KANDEL, TANKA – MS in Plant Science – Postdoc with USDA-ARS

CURRENT STUDENTS AND FELLOWS

IFEKRISTI OGUNWOB I PhD Crop Science

SHUBEKSHYA SHAH MS Plant Science

SEHIJPREET KAUR MS Plant Science

OTHER QUALIFICATIONS

TRAINING

- DSSAT Crop Modeling, May 15-24, 2006
- Open path Eddy Covariance Measurement System, Feb 22-24, 2010
- VSCSE Data Intensive Summer School, Jun 30 – Jul 2, 2014.
- VSCSE Science Visualization, Aug 25-26, 2014.
- Provosts Initiative: Focus on General Education, 2014-15

- Merging Crop Modeling and Genetics, Jul 19-25, 2015
- 2018 CASNR Teaching Workshop, January 11th, 2018
- PETE's Program, Peers Engaging in Teaching Excellence, Spring 2018
- LEAD 21 Class 15, 2019-2020

VOLUNTARY

Reviewer - International Journals

Agriculture, Ecosystems and Environment, Agriculture and Forest Meteorology, Agronomy Journal, Annals of Botany, Bioenergy Research, Biomass and Bioenergy, Canadian Journal of Plant Science, CHOICE, Communications in Biometry and Crop Science, Environmental and Experimental Botany, Environmental Pollution, European Journal of Agronomy, Functional Plant Biology, IEEE JSTAR, Journal of Chemistry, Plant Science and Radiation and Environmental Biophysics, Polish Journal of Environmental Studies, Physiologia Plantarum.

Reviewer - Proposals

2017 – UNL – Proposal Reviewer
2018 – USDA – National Program Review Panel
2018 – Kansas EPSCoR – Proposal Reviewer
2019 – USDA – Proposal Review Panel

External Thesis/Dissertation/Faculty Review

2020 - External Reviewer for Tenure-Track faculty at Montana State University
2019 - External Reviewer for Tenure-Track faculty at Montana State University
2018 - External Reviewer for faculty evaluation by South Africa's National Research Foundation.

PROFESSIONAL SERVICE

2020 – till date – Member – OSU committee on policies for international travel and export control
2018 – 2020 – Elected Multicultural Representative – OSU Faculty Council
2019-till date – Member –OSU Faculty Diversity Council
2017- till date – Member Plant and Soil Sciences Graduate Curriculum Development Committee
2016-2017 – Member – State NSF EPSCoR proposal team

AWARDS

Sarkeys Distinguished Professor (2020) Awarded by DASNR at OSU
Fulbright-Kalam Climate Fellowship (2020-21) Awarded by Fulbright Commission
Warth Distinguished Professorship (2016) Awarded by DASNR at OSU

PROFESSIONAL MEMBERSHIP

Member of American Society of Agronomy(ASA); Crop Science Society of America (CSSA); Soil Science Society of America (SSSA); American Association for Advancement of Science (AAAS) American Society of Plant Biologists (ASPB) , and honorary member of Sigma Xi (Oklahoma Chapter) and Gamma Sigma Delta (Mississippi Chapter).

SUMMARY OF PUBLICATIONS

Published (251): Refereed journal articles (87); Proceeding articles (6); Book chapters (6);
Invited Talks (22); Conference abstracts (129); Extension publications (1)
In Review (6): Refereed journal articles (6)

RESEARCH GRANTS (FUNDED~\$14.5 M)

1. V.G. Kakani. 2021-2022. Genetic Improvement of winter wheat: Integrating classical and novel approaches. Agency: Oklahoma Wheat Commission. Amount: \$65,000.
2. **V.G. Kakani**, P. Tomlinson (KSU) and N. Rajan (TAMU). 2020-2023. Establishing validation sites for field-level emissions quantification from grain sorghum in southern Great Plains. Agency: DOE ARPA-E. Amount: \$4,125,000.
3. **V.G. Kakani**. 2020-2021. Making N-Use Efficiency an Effective Wheat Breeding Target. Agency: OK Wheat Research Foundation. Amount: \$7,000.
4. **V.G. Kakani**. 2019-2021. Institutional Development Plan for Acharya N.G. Ranga Agricultural University. Agency: ANGRAU/ICAR/World Bank. Amount: \$139,000.
5. **V.G. Kakani** and Rocateli, A.C. 2019-2021. Determine Greenhouse Gas (GHG) Emissions from Diverse Grazing Systems in the Southern Great Plains. Agency: USDA-ARS. Amount: \$63,156.
6. **V.G. Kakani** and Rocateli, A.C. 2018-2021. Determine Greenhouse Gas (Ghg) Emissions from Diverse Grazing Systems in the Southern Great Plains. Agency: USDA-ARS. Amount: \$206,000.
7. **V.G. Kakani** and B. Arnall. 2018-2019. Making N-Use Efficiency an Effective Wheat Breeding Target. Agency: OK Wheat Research Foundation. Amount: \$19,000.
8. Rocateli, A.C. and **V.G. Kakani**. 2017-2021. Determine Greenhouse Gas (Ghg) Emissions from Diverse Grazing Systems in the Southern Great Plains. Agency: USDA-ARS. Amount: \$264,000.
9. **V.G. Kakani**. 2017-2018. EPSCoR RII Track 1: Adapting Socio-ecological Systems to Increased Climate Variability (PI: R.L. Huhnke) (OK CROP – A Web Based Decision Support System for Producer to Policy Maker). Agency: NSF-EPSCoR. Amount: \$69,108.
10. Haggard, B.J., **V.G. Kakani**, M.A. Baker, S. Robinson, J. Sallee. 2017-2021. Oklahoma State University Sustainable Bioenergy Education. USDA-NIFA. Amount: \$1,500,000.