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Agricultural Business
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Education

- **Morrison School of Agribusiness, W. P. Carey School of Business, Arizona State University** **Arizona, U.S.**
Ph.D. Business Administration (Agribusiness) 2015-2020
Specialization: Supply Chain Management
Dissertation title: Managing Food Loss and Food Waste in the Supply Chain
Dissertation committee: Ashok K. Mishra, Ph.D. (Chair), Timothy J. Richards, Ph.D., Scott Webster, Ph.D.
- **Centre for International Trade and Development, Jawaharlal Nehru University** **New Delhi, India**
M.Phil. Economics 2011-2013
- **Gokhale Institute of Politics and Economics** **Pune, India**
M.A. Economics 2008-2010
- **University of Calcutta** **Kolkata, India**
B.Sc. Economics 2004-2007

Research Interests

Quantitative Methods, Production Economics, Food Supply Chain, Food Waste, Food Access, Food Security, and Applied Econometrics.

Publications

- Peer-reviewed papers

Dsouza, A., Fang, D., Yang, W., Kemper, N.P. & Nayga Jr, R.M. (2023). "Consumers' Valuation for a Novel Food Waste Reducing Technology: The Case of Natural Coating" *Journal of the Agricultural and Applied Economics Association*, 1-14.

D'souza, A., Mishra, A., & Webster, S. (2021) Assessing post-harvest losses under vertical coordination: evidence from an emerging economy. *Applied Economic Perspectives and Policy*.

Mishra, A. K., Kumar, A., Joshi, P. K., & **D'souza, A.** (2020). Monopsonists, Disruptive Innovation, and Food Security: The Case of High-Value Commodity. *Applied Economic Perspectives and Policy*, 44(1), 460-476.

D'souza, A., Mishra, A., & Hirsch, S. (2019). Enhancing food security through diet quality: The role of non-farm work in rural India. *Agricultural Economics*, 51(1), 95-110.

Mishra, A. K., Kumar, A., Joshi, P.K., & **D'souza, A.** (2018). Production risks, risk preference, and contract farming: Impact on food security in India. *Applied Economic Perspectives and Policy*, 40 (3), 353-378.

Mishra, A.K., Kumar, A., Joshi, P.K., & **D'souza, A.** (2018). Impact of contract farming on yield, costs, and profitability in low-value crop: Evidence from a low-income country. *The Australian Journal of Agricultural and Resource Economics*, 62 (4), 589-607.

Mishra, A. K., Kumar, A., Joshi, P. K., & **D'souza, A.** (2018). Cooperatives, contract farming, and farm size: The case of tomato producers in Nepal. *Agribusiness*, 34(4), 865-886.

Mishra, A.K., Kumar, A., Joshi, P.K., **D'souza, A.**, & Tripathi, G. (2018). How can organic rice be a boon to smallholders? Evidence from contract farming in India. *Food Policy*, 75, 147-157.

D'souza, A., & Mishra, A.K. (2018). Adoption and abandonment of partial conservation technologies in developing economies: The case of South Asia. *Land Use Policy*, 70, 212-223.

Keil, A., **D'souza, A.**, & McDonald, A. (2017). Zero-tillage is a proven technology for sustainable wheat intensification in the Eastern Indo-Gangetic Plains: what determines farmer awareness and adoption? *Food Security*, 9(4), 723-743.

D'souza, A., & Ray, A.S. (2017). Structural transformation in North-Eastern Region of India: Charting out an agriculture-based development policy. *Agrarian South: Journal of Political Economy*, 6 (3), 373-394.

Mishra, A.K., Kumar, A., Joshi, P.K., & **D'souza, A.** (2016). Impacts of contracts in high yielding varieties seed production on profits and yield: The case of Nepal. *Food Policy*, 62, 110-121.

Parikh, K., Ghosh, P., **D'souza, A.**, & Binswanger-Mkhize, H.P. (2016). Consumer demand system for long-term projections. *Indian Journal of Agricultural Economics*, 71 (2), 113-136.

Keil, A., **D'souza, A.**, & McDonald, A. (2016). Growing the service economy for sustainable wheat intensification in The Eastern Indo-Gangetic Plains: lessons from custom hiring services for zero tillage. *Food Security*, 8 (5), 1011-1028.

D'souza, A., Singh, S., & Ranjan, R. (2015). Does socio-religious identity lead to structural disadvantage? Evidence from the Indian labour market. *Indian Journal of Labour Economics*, 58, 545-561.

Keil, A., **D'souza, A.**, & McDonald, A. (2015). Zero-tillage wheat as a pathway for sustainable intensification in the Eastern Indo-Gangetic Plains: Does it work in farmers' fields? *Food Security*, 7 (5), 983-1001.

Bathla, S., & **D'souza, A.** (2015). Inter-sectoral productivity differential in India: Is convergence achievable? *South Asia Economic Journal*, Sage Publications, 16(1), 82-102.

Bathla, S., Bhattacharya, P., & **D'souza, A.** (2015). India's national food security act 2013: Food distribution system or food stamps and cash transfers? *Agricultural Economics Research Review*, AERA (India), 28 (1), 39-55.

Binswanger-Mkhize, H.P., & **D'souza, A.** (2015). Structural change at the state level in India: 1980-2010. *Agricultural Economics Research Review*, AERA (India), 28 (1), 27-38.

- **Book Chapters**

Vishnu, K., & **D'souza, A.** (2021). Role of transaction costs in modern retail chains: Empirical evidence from India. In *Transforming Agriculture in South Asia: The Role of Value Chains and Contract Farming*, edited by A.K. Mishra, A. Kumar, & P. K. Joshi, Routledge.

Mishra, A. K., Kumar, A., & **Dsouza, A.** (2020). Contract farming and its impact on fertilizer usage: Evidence from India. In *Transforming Agriculture in South Asia: The Role of Value Chains and Contract Farming*, edited by A.K. Mishra, A. Kumar, & P. K. Joshi, Routledge.

D'souza, A., Mishra, A. K., & Sonoda, T. (2020). Impact of Casual and Permanent Off-Farm Activities on Food Security: The Case of India. In *The Role of Smallholder Farms in Food and Nutrition Security* edited by S.G. Paloma, L. Riesgo, & K. Louhichi, Springer.

Binswanger-Mkhize, H.P., & **D'souza, A.** (2012). Structural transformation and agricultural productivity in India. In *Productivity Growth in Agriculture: An International Perspective*, edited by K. Fuglie, S L Wang, & E. Ball, CABI.

- **Manuscript under review**

D'souza, A., Webster, S., & Mishra, A. Managing pre and post-harvest losses under vertical coordination.

- **Manuscript under preparation**

D'souza, A., & Richards, T. Food Waste in online versus offline grocery shopping: A machine learning approach.

Presentations at Conferences

D'souza, A., Webster, S., & Mishra, A.K. (2019). Assessing post-harvest losses under vertical coordination: Evidence from an emerging economy. *INFORMS Annual Meeting*, Seattle, WA.

D'souza, A., Mishra, A.K., & Webster, S. (2019). Designing vertical linkages to reduce food loss. *Agricultural and Applied Economics Association Annual Meeting*, Atlanta, GA.

D'souza, A., Chenarides, L., & Richards, T.J. (2018). Food waste in online vs. offline grocery shopping. *INFORMS Annual Meeting*, Phoenix, AZ.

D'souza, A., & Mishra, A.K. (2018). Improving diet quality through off-farm work: Empirical evidence from India. *Agricultural and Applied Economics Association Annual Meeting*, Washington D.C.

D'souza, A., & Binswanger. H.P. (2017). The structural transformation of the Indian economy: 1961 to 2010. *Regional Strategic Analysis and Knowledge Support System (ReSAKSS)*, Bangkok, Thailand.

D'souza, A., & Mishra, A.K. (2016). Adoption and abandonment of conservation technologies: A case of South Asia. *Agricultural and Applied Economics Association Annual Meeting*, Boston, MA.

D'souza, A., & Ray, A.S. (2014). Structural transformation in the North Eastern Region of India: Charting out an agriculture-based policy. *IFPRI-IEG International Conference*, New Delhi, India.

Teaching Experience

- **Department of Agriculture, Arkansas Tech University, Arkansas** **Arkansas, U.S.**
Assistant Professor
AGBU 2063: Principles of Agricultural Macroeconomics Fall 2020, Spring 2021, Fall 2021, Spring 2022
AGBU 4063: Agricultural Marketing Fall 2020, Spring 2021, Fall 2021, Spring 2022
AGBU 4153: Computers in Agriculture (data analytics) Fall 2020, Spring 2021, Fall 2021, Spring 2022
AGBU 4973: Senior Seminar Fall 2021
AGBU 4013: Agricultural Investments Spring 2021, Spring 2022
- **Morrison School of Agribusiness, W. P. Carey School of Business, Arizona State University** **Arizona, U.S.**
Teaching Assistant, AGB 302: International Management and Agribusiness Fall 2019
Instructor, BUS 384: Business Operations and Planning Summer 2019
Teaching Assistant, BUS 384: Business Operations and Planning Spring 2019
Teaching Assistant, AGB 302: International Management and Agribusiness Fall 2018
Co-Instructor, WPC 300: Problem Solving and Actionable Analytics Spring 2018
Instructor, AGB 452: Global Food and Agricultural Policy Spring 2017
- **Centre for International Trade and Development, Jawaharlal Nehru University** **New Delhi, India**
Instructor, Graduate-level Intermediate Microeconomics Spring 2012

Professional Experience

- **Assistant Professor** August 2022 - present
New Mexico State University, New Mexico, U.S.
- **Assistant Professor** September 2020-August 2022
Arkansas Tech University, Arkansas, U.S.
- **Research Associate** November 2013–July 2015
International Maize and Wheat Improvement Center (CIMMYT) New Delhi, India
- **Research Assistant** June 2010–August 2011
Integrated Research and Action for Development (IRADe) New Delhi, India
- **Intern** June 2009–August 2009
International Food Policy Research Institute (IFPRI) New Delhi, India

Grants

- Introducing Data-Driven Decision-making in Agribusiness, Teaching Technology Innovation Grant, Arkansas Tech University, 2021-2022, (\$18,492), My Role: PI
- The Travel Grant for Early Career Professionals and Graduate Students, AAEA, 2018 (\$500), 2019 (\$465)
- Graduate and Professional Student Association Travel Grant (2019) (\$960)
- Richard Gordon Scholarship 2018 (\$500)
- The James Sweitzer Memorial Scholarship, 2015-2016 (\$2000), 2016-2017 (\$800)

Honors/Awards/Achievements

- Outstanding Reviewer, *Journal of Agribusiness in Developing and Emerging Economies*, 2019 & 2022.
- Recipient of Dr. D.K. Desai award for the best article published in the *Indian Journal of Agricultural Economics* for the year 2016.
- Recipient of Dr. R.T. Doshi award for the best article published in the *Agricultural Economics Research Review* for the year 2015.
- D'souza and Mishra (2018) cited by *Nature Sustainability* (<https://www.nature.com/articles/s41893-017-0018-4>)

Leadership Positions/Service

- Peer review panel member, USDA-NIFA Grants, 2021
- Co-Advisor, Minorities in Agriculture, Natural Resources and Related Sciences (MANRRS), New Mexico State University, 2023-present.
- Co-Advisor, Minorities in Agriculture, Natural Resources and Related Sciences (MANRRS), Arkansas Tech University, 2021-2022
- Faculty representative, Equity and Diversity Committee, Arkansas Tech University, 2021-2022
- Assembly member, W. P. Carey School of Business, Graduate and Professional Student Association (GPSA) (2017-2018; 2018-2019)

◦ **Journal Referee***

- *African Journal of Agricultural Research (Academic Journals)*
- *Agribusiness (Wiley)*
- *Applied Economics (Taylor and Francis)*
- *China Agricultural Economic Review (Emerald Publishing)*
- *Environment and Development Economics (Cambridge University Press)*
- *Environment Science & Technology (American Chemical Society)*
- *European Journal of Development Research (Palgrave MacMillan, Springer)*
- *Food Policy (Elsevier)*
- *Food Security (Springer)*
- *Journal of Agribusiness in Developing and Emerging Economies (Emerald Publishing)*
- *Journal of Agricultural and Resource Economics*
- *Journal of Co-operative Organization and Management (Elsevier)*
- *Journal of Cleaner Production (Elsevier)*
- *Journal of Crop Improvement (Taylor and Francis)*
- *Land Use Policy (Elsevier)*
- *Land Degradation and Development Review (Wiley)*
- *The Australian Journal of Agricultural and Resource Economics (Wiley)*
- *World Development Perspectives (Elsevier)*

Analytical and Technical Skills

- **Quantitative:** Survey Design | Statistical Modeling | Linear Programming | Agent-Based Modeling | Machine Learning
- **Qualitative:** Interviews | Focus group discussions
- **Language:** Python
- **Statistical Software:** STATA | SPSS | SAS | GAMS | @Risk | ArcGIS | QGIS | R | Nlogit | NetLogo | LaTeX