

TUTAN AHMED

Assistant Professor
Vinod Gupta School of Management
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CURRENT POSITION

Assistant Professor (IIT Kharagpur)

Assistant Professor at Vinod Gupta School of Management, Indian Institute of Technology Kharagpur

ACADEMIC QUALIFICATION

Indian Institute of Management Calcutta

Fellow in Public Policy & Management (Awarded in 2016)

Area of Work: Econometric Modeling on education & labor market using National Databases

CGPA: 7.42/9 (in Major Area)

Jadavpur University

Bachelor of Engineering, Production Engineering, First Class (Awarded in 2007)

Ramakrishna Mission Residential College Narendrapur

Higher Secondary with Science & Statistics, with 45th rank in State Board (Awarded in 2003)

Basirhat High School

Secondary education June, with 27th Rank in State Board (Awarded in 2001)

TEACHING EXPERIENCE

Macroeconomics (with Co-Faculty) **Econometrics** (Full Course), **Microeconomics** (Full Course), **Business Government & International Economic Environment** (Full Course): **Core Course** for 1st Year Post Graduates in Masters of Business Administration Class

Measurement of Sustainable Development Goals - Technology & Public Policy: Elective Course for 2nd Year Post Graduates in Masters of Business Administration Class

AWARDS & GRANTS

DAAD Fellowship as a Visiting Scholar in **University of Cologne, Cologne, Germany** (May-June, 2016)

Evaluation of **Capacity Development Scheme of Ministry of Statistics & Program Implementation (MoSPI) Government of India (2019)** as Co-Principal Investigator, Funding Agency: MoSPI, Government of India, Project value: \$71,000 USD (Approx.)

Measuring poverty at household level from satellite images & drone data: A deep learning framework (2020), as Principal Investigator, Funding Agency: **Indian Space Research Organization (ISRO)**, Project value \$49000 USD (Approx.)

Developing Toolkit: Introducing Machine Learning in Econometric Research (2020) as Principal Investigator, **Funding Agency: Indian Institute of Technology Kharagpur** under **Institute Scheme for Innovative Research and Development**, Project value: \$39000 USD (Approx.)

Evaluation of MES Training Program in India: Using Propensity Score Method (2015) as Principal Investigator, **Funding Agency: Swedish International Development Agency**, Award Granted by South South Research Cooperation, Research Award Value: \$10,000 USD

SIGNIFICANT PUBLICATIONS

1. Ahmed, Tutan “Labor Market Analysis Using Big Data: A Case of A Pakistani Online Job Portal”(with Norihiko Maksuda & Shinsaku Nomura), 9063, World Bank Policy Research Working Paper (2019), World Bank, Washington DC
2. Ahmed, Tutan. "Employment growth/skill requirement estimation in India: a non-traditional approach." Australian Journal of Labor Economics 21.3 (2018). 253-266
3. Ahmed, Tutan. "Labour market outcome for formal vocational education and training in India: Safety net and beyond." IIMB Management Review 28.2 (2016): 98-110.
4. Ahmed, Tutan, "Return to general education and vocational education & training in Indian context." (with Raghavendra Chattopadhyay) International Journal of Educational Management 30.3 (2016): 370-385
5. Ahmed, Tutan. "Socio-Economic Impact of VET: Are Students Interested in Joining Vocational Education and Training in India–In the Context of Skilling Mission in India." India: Preparation for the World of Work. Springer VS, Wiesbaden, 2016. 331-344.
6. Ahmed, Tutan. "U-shaped curve for job search duration and level of education in India." The Indian Journal of Labour Economics 58.3 (2015): 433-449.
7. Ahmed, Tutan. “Decline of formal vocationally trained manpower in India during past decade-an exploratory analysis ” – India: Science & Technology, 2014, Vol. 3, Cambridge Univ. Prem

8. Ahmed, Tutan. “Capacity Building in Indian education” (with Anindya Chaudhuri & Mee Young Han) in Commodity Vision, 4.2, (2010): 14-22

PAPERS UNDER REVIEW

- Ahmed, Tutan: ““Evaluating an Institutional Shift in the Training Landscape of India: Application of Quasi-Experimental Methodology””, submitted to World Development

PAST POSITION

Consultant (World Bank)

Consultant in Education Global Practice & Social Protection & Labor SAR Unit Since May, 2015 till June, 2018

Consultant (United Nations Development Program)

Skills & Business Development, Since June, 2015 till June, 2017

Consultant (Ministry of Skill Development, Government of India)

Secondment from UNDP to the Ministry of Skill Development Government of India, since June 2015 to February 2017

RESEARCH INTEREST

Education and Skill Development, Labor Market, Gender, Econometrics, NLP, Machine Learning, Deep Learning, Behavioral Science

OTHER EXPERIENCES

National Planning Commission, Government of India: Internship

Key Assignment: Internship with Adviser of Ministry of Human Resource Development during 12th national plan formation

IBM India Pvt. Ltd: System Engineer

Key Assignment: software packaging, software testing

OTHER ACTIVITIES

- Founder & President of Public Policy & Politics, special interest group at Indian Institute of Management Calcutta, 2013-2014

- Elected as Representative of the Fellow students at Indian Institute of Management Calcutta, 2010-2011
- Cofounder of a charity organization “Ahmed Foundation” to provide scholarship to poor but meritorious students, near Kolkata, in 2017

PROGRAMMING & SOFTWARE

- General Programming: C, STATA, Python, R

LANGUAGE

- Proficient in English, Bengali, Hindi, & Basic level in Spanish

HOBBIES

- Reading, Meditation, Traveling, Community Work, Physical Exercise, Learning new skill sets

CONFERENCES & INVITED LECTURES

- Invitation from North-South University, Dhaka “Causality in Social Science Research” (Tentative, 2020)
- Invitation from IIT Kanpur “Application of Propensity Score, Structural Equation Model and Probabilistic Graph Model: Benefits of Skill Training Program of Government of India” (Tentative, 2020)
- "Employment & Skill Requirement Forecasting for Regional Labor Market in India: Methodology with Traditional and Non-traditional Data” in 2nd IDSC of IZA/CAIS Workshop: Matching Workers and Jobs Online, Bochum, Germany, September 2019.
- Panel Discussant “Social Business and Technology: How to Solve Social Problems Through Technology” in Social Business Day Conference, Bangkok, June 2019
- “AI in Public Policy”, organized by Global Development Network in New Delhi, May 2019
- “Should Government of India Continue to Invest in Vocational Education & Training” India-China Conference, New Delhi, January 2019

- “Future of Education” at World Bank Youth Summit, Washington DC, December 2018
- “A Methodological prescription for forecasting the job growth for the labor market in India: Using Multiple Data Sources and Machine Learning Technique” at 59th Annual Conference of Indian Society of Labor Economics, in Thiruvananthapuram, Kerala, December 2017
- “Job growth/ skill requirement prediction and aspiration mapping with data science” at 8th edition of Aegis Graham Bell Awards in Mumbai, November 2017
- “Skill Requirement Forecasting: Use of Data Intelligence”: Keynote speaker at Workshop with the District Administration, in Nagpur, Maharashtra, June 2017
- “Skill Requirement Forecasting: Use of big data & machine learning” in Data Science Congress in Mumbai, June 2017
- “Labor Markets in South Asia: Evidence and Policy Lessons” and “ IZA/DFID Short Course on Program Evaluation” in Dhaka, Bangladesh, December 2015
- “Evaluation of Modular Employability Scheme” using Propensity Score Method” (Presenting the baseline and pilot results) in VII Conferencia Latinoamericana y Caribeña de Ciencias Sociales, in Medellin, Columbia, November 2015
- “Individual, Market and Government – Mapping Labor Market for the formal VET trained manpower”, at CESP-YSS, Jawaharlal Nehru University, Delhi, March 2015
- “Formal Training, Market & Institution in India” in International TVET Conference, Bhopal, February 2015
- “ Occupation specific “Crowding Out” of General and Technical Educated Manpower in India” in World Mgt. Conference, IIM Kozhikode, Kozhikode, November 2014
- “ Participation in Formal Vocational Training in India – A matter of Socio-Economic Privilege” in Social Choice & Welfare 12th Meeting, Boston, July 2014
- “Return to General education versus Vocational Education and Training in India” in Indo-Canadian Shastri Institute Annual Meeting, Delhi, June 2014

- “Socio-Economic Benefit of Vocational Education and Training in India” in International Business & Social Science Conference, Cancun, Mexico, December 2013
- “Atypical Labor Market outcome of the Vocational Education and Training Manpower in India” in Indian Academy of Management; Ahmedabad, December 2013
- “Safety Net Theory and labor Market for Vocational Education and Training Manpower in India” at Doctoral Colloquium at IIM Ahmadabad, Ahmedabad, December 2013
- “Informal sector training model, Gems and Jewelry industry in West Bengal & Delhi” at “PowertoEmpower” by National Skill Development Corporation, New Delhi, January 2013
- “Demand Situation of Vocational Education and Training in India” – policy paper presented on invitation at National Institute of Science Technology and Development (NISTADS), Government of India, New Delhi, March 2012

▪ **REFERENCES**

Professor Raghendra Chattopadhyay

Designation: Professor, Public Policy & Management Group in IIM Calcutta

Relationship: Thesis Supervisor

Link: <https://www.povertyactionlab.org/chattopadhyay>

Phone: On request

Professor Peter Kuhn

Designation: Distinguished Professor of Economics

Relationship: PI/ CO-PI in current projects

Link: <https://econ.ucsb.edu/people/faculty/peter-kuhn>

Phone: On request