

## **TUTAN AHMED**

Assistant Professor  
Vinod Gupta School of Management  
Indian Institute of Technology Kharagpur  
Kharagpur  
West Bengal, Pin - 721302  
India

Tel: +91.3222.282295  
Fax: +91.3222.278027  
Mob: +91.9874088821  
Email: [tutana09@email.iimcal.ac.in](mailto:tutana09@email.iimcal.ac.in)  
[tutan@vgsom.iitkgp.ac.in](mailto:tutan@vgsom.iitkgp.ac.in)

---

### **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