

ABHAY GUPTA

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Education

Ph.D. (Economics).	University of British Columbia, Canada.	2005 – 2009.
B.Tech.(Chemical Engineering).	Indian Institute of Technology, Kanpur, India.	1995 – 1999.

Work Experience

2011– Now	Economic Analyst.	MITACS research network, Canada.
2009 – 2010	Economist.	The Conference Board, New York, USA.
2006 – 2009	Program Officer.	HSR Group, Simon Fraser University, Canada.
2002 – 2003	Project Leader.	Wipro Technologies, Bangalore, India.
1999 – 2002	Senior Developer.	MindTree Ltd., San Jose, CA, USA.

Current Projects:

- Creating Program Evaluation Framework for Research & Development Activities; based on OECD Oslo Manual and EU Community Innovation Survey.
- Modeling and Estimating Economic Benefits of Discovery and Innovation in various fields: Biomedical & Health, Environment & Natural Resources, Information Processing, Risk & Finance, Communication Networks & Security.
- Sector-wise Technology and R&D Investment Strategy. National Innovation Framework.
- Automating & Integrating the Survey Design, Data Collection, Analysis and Reporting Processes.

Other Duties:

- Managing Enterprise Data Integrity with information about 50+ Universities, 40+ Research Networks, 600+ Industry Partners, 20+ Government Departments, 2500+ current Research Projects etc.
- Comparing International Innovation Landscape (Basic & Applied Research, IP Protection/ Patents, Commercialization, Market Regulations, Diffusion) and Effect on Productivity & Competitiveness.
- Research Dissemination to staff and external partners (Academics, Policy Makers and Businesses).

Earlier Economics Projects:

- World Input Output and Total Factor Productivity Databases. – India Productivity Report.
- Impact of Information and Communication Technology on Competitiveness and Services.
- Measuring Innovations, R&D and Intangible Assets. – Demographic, Education & Skills Patterns.
- Forecasting Economic and Various Sub-Sector Performances for Emerging Markets.
- Combining Financial & Economic Variables into Meaningful Indices with Predictive Power.
- Growth Potentials and Risks for Various Sectors and Industries. – Identifying Best Practices.

Research Responsibilities:

- *Tracking Economies:* Macro, Micro & Global developments. Presenting implications to our stakeholders.
- *Theme Based Research:* Finding relevant & important topics. Data gathering. Applying established theories. Streamlining the results for different audiences.
- *Problem Based Research:* Resolving economic issues facing the business members. Formalizing the problems. Figuring out economic mechanisms involved. Suggest ways to achieve desired objectives.
- *Reports and Databases:* Keep updating various economic databases. Writing reports, briefs & papers.
- *Presentations:* Periodic Webcasts. Council Meetings. Seminars & Conferences.
- *India:* Responsible for expansion in India. Building partnerships. Finding projects/ opportunities.

Functional Expertise

- Quantitative Analysis & Statistical Programming.
- Constructing Large Datasets (Time-Series & Panel).
- Evidence & Outcome Estimation Techniques.
- Comparative Evaluations & Test Scenarios.
- Theoretical & Empirical Modeling.
- Data Mining for Relationships & Trends.
- Projections, Valuations & Forecasting.
- Economic Measurement Matrices & Indexes.

Programming Experience

- *Statistical*: Stata, Matlab, SAS, SPSS, Shazam, Eviews, R, Mathematica.
- *Object-Oriented & Internet*: Java, C++, Perl, Python, UNIX Shell, JSP, PHP, XML.
- *Enterprise Software*: Application Servers. Messaging Frameworks. Multi-tiered Architectures.
- *Relational Databases*: Oracle, SQL Server, MySQL. JDBC/ODBC.
- *Business Intelligence/ Analytics*: IBM Cognos, SAP Business Objects, Oracle Hyperion.
- *IT Tools*: Content Management Systems. Single Sign-On. Revision Control. IDEs.
- *Methodologies*: Capability Maturity Model. Design Patterns. Agile Software Development.
- *Other Work*: System Administration. Support & Troubleshooting. Documentation.

Economic Data Handled

- Price Index. Time Use Surveys. Census. Labor Market & Skills.
- Economic Outlook. Financial Statistics. Energy & Environment. Demographics.
- Development Indicators. Infrastructure. Social Measures. Investment. R&D.
- Business Cycles. Input-Output Tables. Industry & Services. Policy & Regulation.
- Trade. Patents & Copyrights. Manufacturing Firms. Raw Materials.
- Household Expenditure. Stock Markets. Healthcare. Retail Sales. Supply Chains.
- Longitudinal Surveys. Economic Activity Measures. National Account Statistics.

Econometric, Data and Financial Tools

- *Proprietary Data/Models*: Thomson-Reuters DataStream. Haver Analytics. IHS Global Insight.
- *Matlab Toolboxes*: Financial. Financial Derivatives. Data-Feed. Fixed-Income. Econometrics. Statistics. Neural Network. Curve Fitting. Spline. Model-based Calibration.
- SAS Data Integration. Oracle Database. SQL. Connector APIs.
- QuantLib. Google Finance API. FPML and FIX. Reuters Foundation and Market Data APIs.

Journal Articles and Working Papers

- Indian Manufacturing Productivity: What caused the growth stagnation before the 1990s? *International Productivity Monitor, Fall 2010.*
- Recent Productivity Developments in the World Economy, *International Productivity Monitor, Spring 2010*; with Bart van Ark et al.
- Comparing Bank Lending Channel in India and Pakistan, *Finance India* (forthcoming).
- Measuring Quality Change due to Technological Externality in Multi-Feature Service Bundles.
- Technological Progress on Consumption side: Consolidation and Prevalence of Complements.
- Skills Distribution, Migration and Wage Differences in Pure Service-Exchange Economy.
- Optimal Allocation of Physical and Skills Capital in Services Production.
- Inequality: An explanation using State-Utility and Information Asymmetry.
- Indian Economy - TFP or Factor Accumulation: A Comprehensive Growth Accounting Exercise.

Other Publications

- The 2010 Productivity Brief: Productivity, Employment, and Growth in the World's Economies. *The Conference Board Report, 2010.*
- An Analysis of Economic Growth in India: What explains the economic growth surge? *VDM Publisher, October 2010.*

Academic Conferences and Presentations

- World KLEMS Conference, Harvard University, Cambridge (2010).
- Groningen Growth and Development Center, Groningen, Netherlands (2009, 2010).
- Bank of Canada/UBC Workshop on Macroeconomics & Monetary Policy, Vancouver (2009).
- Southern Economic Association Meeting, Washington DC (2008).
- Canadian Economics Association Meeting, Vancouver (2008).
- Pacific Northwest Regional Economic Conference, Tacoma (2008).
- UN International Working Group on Price Indices (The Ottawa Group), Ottawa (2007).
- Conference on Industrial Organization, Phelps Centre, Vancouver (2007).
- Frontiers in Mathematics and Economics, Pacific Institute of Mathematics, Vancouver (2006).
- Canadian Econometrics Study Group Conference, Vancouver (2005).
- Annual Meeting of the Canadian Macroeconomics Study Group, Vancouver (2005).

Management and Leadership Experience:

- Consulting with Clients. Stocktaking of their Issues/ Requirements.
- Brainstorming for Solutions / Product Features. Designing and Project Planning.
- Setting-up Offshore Development & Delivery. Tracking Progress. Quality Checks.
- Participated in Discussions with Senior Executives about Opportunities & Strategic Directions.
- Facilitated Communication between Different Groups. Writing White Papers, Technical Documents.
- Evaluating Technologies. Conveying Information about their Capabilities and Relevance.
- Project Lifecycle, Processes, Quality Standards, Performance Review of Team Members.
- *Sponsorships & Funding*: Proposals, Product Presentations, Responses to Quote Requests.

Other Qualifications

- Competitive Achievements throughout Academic Studies and Professional Career.
- Worked in Diverse Settings: Research, Educational, Large Enterprises, Startups, Non-Profits.
- Demonstrated Flair for Converting Abstract Problems into Tractable and Measurable Matrices.
- Adept in working with Data and Logical Analysis of Numbers.
- Network of Professional Contacts Spanning many Industries, Occupations and Locations.

Citizenship

Canadian Citizenship. Overseas Citizen of India.

References

Excellent References available on request.
