Minh Dang Bui— Economist & Data Analyst

CONTACT INFORMATION

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RESEARCH BACKGROUND

- **Economics**.
- **Finance**.

INTEREST

- **Growth Theory, General Equilibrium, Dynamics Macroeconomics**
- **Visualization, Data Mining, Big Data, Deep Learning**
- **Business Development, Technology Start-ups, Technology Transfer and Evaluation**

SKILLS

- **Analytical skills, Communication skills, Critical-thinking skills, Math skills, Detail oriented**.
- **Intellectual curiosity, Coding skills, Data visualization**.

EDUCATION

Ireeds Institute of Research, Hanoi, Vietnam   1/2018–Current

- Applied Econometrics with R course.

VCREME Research Center, Hanoi, Vietnam   11/2017–Current

- Advisors: PSE Emeritus Professor. Cuong Le Van (Quantitative Macroeconomic Modelling); Associate Professor. Manh-Hung Nguyen (Microeconomics/Dynamic Macroeconomic); Associate Professor. John Luke Gallup (Econometrics); PhD. Duong Viet Thong (Optimization);

Macquarie University, Sydney, Australia   02/2015–04/2017

- M.Res in Faculty of Business and Economics.
- Theoretical thesis researched on macroeconomic conditions and bank risk-taking in Australia
- Advisor: Associate Professor. Tony Bryant.

National Economics University (NEU), Vietnam.   09/2009–9/2013

- Bachelor of Advanced Educational Programs., Finance and Banking.

TECHNICAL SKILLS

- *Programming Languages*: Mainly R (Advance), Python
- *Technical Softwares*: STATA, NVIVO, Gretl and other statistic softwares.
- *Other Skills*: Microsoft Office, SurveyCTO, LaTeX

NETWORK CONNECTION

- *Academia and Experts*: More than 30 Prof., Ass.Prof, lecture in world class level in US, Europe, Australia... along with Vietnamese associations of science and professionals worldwide.
- *Alumni*: More than 1000 VCREME and IREEDS Alumni in Viet Nam, and over 100 master, Phd, researchers in foreign countries.
- *Engineers*: More than 20 world class engineers (Computer Science, Data Science, Machine learning) working in highly prestigious tech corporations.
- *Enumerators*: Around 5000 enumerators in Vietnam .
- *Universities and Organizations*: Dozens Universities, research centre in VCREME/IREEDS network and thousands firms through the network of BSR Corporation.

RESEARCH & CONSULTANT EXPERIENCE	• **Data Science Center UData, Hanoi, Vietnam** 8/2018–Current

- **Data Science Center UData, Hanoi, Vietnam**   8/2018–Current
  Founder
  Together with world-class professors, experts and engineers (TSE, PSE, Evry Val d'Essonne University, Vanderbilt University, Warwick University, CNRS, VCREME, IREEDS, AFD, KAIST, Viettel Group, BSR Group ...) to create pre-master, pre-doctoral programs, short and long-term training courses in applied econometric and data science.

- **BSR Korea Corporation**   3/2018–Current
  Business consultant and business evaluation expert
  - Export logistics, legal, investment joint consulting.
  - R&D consulting (technology introduction, development, technology transfer)
  - Business analysis and strategic design, technology valuation.
  - Intellectual property consulting, patent evaluation.
  - O2O (On Line Off Line) Consulting.

  Referee: Mrs. Cao Huyen Trang, Country Director, SBR Corporation, htcao.vn@gmail.com

- **Ireeds Institute of Research, Hanoi, Vietnam**   2/2018–Current
  Research assistant for **Senior Lecturer Tuan Anh Luong, De Montfort University** and **TSE Research Faculty, INRA, Researcher at INRA, Nguyen Manh Hung**: Main activity is solving mathematical problems, optimization.
  Assist general manager operate institute's activities (research, training and international cooperation)
  Referee: **TSE Research Faculty, INRA, Researcher at INRA, Nguyen Manh Hung**

- **Academy of Policy and Development, MPI Vietnam**   8/2017–2/2018
  Research Officer.
  Managed research activities of Academy and conducted joint research projects.
  - Formation and development of debt trading market for banks and enterprise in Vietnam (National level project).
  - Measured the impact of BREXIT on UK FDI by using General Equilibrium.

- **Mekong Development Research Institute (MDRI)**   11/2016–07/2017
  Researcher.
  Main activities:
  - Researched and analyzed economic issues.
  - Conducted surveys and collected data.
  - Analyzed data using mathematical models and statistical techniques.
  - Prepared reports, tables, and charts that present research results.
  - Direct manage and support manage database system for projects.
  - Coordinate and join directly to build up projects including bidding, logistics, recruiting, training and supervise enumerators, keeping contact with relevant experts and organization.
  - There are 9 projects joined funded by World Bank, DFAT, Fred Hollows Foundation, Irish Aid. Detail in Annex

- **Institute for Economics and Development Studies, National Economics University**   01/2014–12/2014 and 08/2017–Current
  Part-time researcher.
  Conducting research projects include:
  - Methodology and research approach to identify the market transaction value of technology trading. Project No.TTKHCN.T.04-2017 — *National level project, Research leader*
  - Enhance innovation capability of organizations in Quang Nam province the fourth industrial revolution. — *Provincial level project*
  - Study of current situation and solution to improve human resources training among ethnic minority in Quang Nam Province. — *Provincial level project*
  - Current status of R&D and technology transfer of industrial enterprises in Hung Yen province. — *Provincial level project*

  Referee: PhD Dang Thu Huong, huongtb2020@gmail.com

VOLUNTEERING AND OTHER ACTIVITIES

- **Young Drukpa Association Vietnam**
  Active Member   04/2017–Current

- **Opening Workshop - GEMMES Program (Generalized Monetary Macroeconomics for the Ecological Shift).**
  Member of organizing committee   7 May 2018
- **Vietnam Sustainability Forum**
  Member of organizing committee   18-19 January 2018
- **Vietnam Water Resources Planning Institute**
  Trainee Engineer, Economic Division   01/2014–12/2014
  Volunteer   10/2013–12/2013

HONORS, AWARDS AND OTHERS

- *Certificates*, Data Scientist with R from DataCamp.   2018
- *Certificate*, Leadership and governance for provincial transformation . 2017
- *Certificate*, Macquarie Mres Expo, present about bank-risk taking behaviour. 2017
- *Small Grant*,Australia Awards 2017   2017
  Update book: 54 Ethnic Minorities: WHY Different.
- *Scholarship*, Macquarie Research Excellence Scholarship   2015
  for International Research Training Pathway (VIED-MQRES iRTP).
- *Third prize* Vietnam Young Science Talent Award 2013.   University level 2013
- *First prize* Vietnam Young Science Talent Award 2013.   Faculty level 2013

ANNEX

○ **Baseline Survey for Scaling up Rural Water Supply and Sanitation in Vietnam.**   Client: World Bank

Overview: In April 2017, MDRI conducted the Baseline Survey for Scaling up Rural Water Supply and Sanitation in Vietnam in 4 provinces in the Northern Mountains and Central Highlands (NM-CH) regions of Vietnam as commissioned by the World Bank.
The survey was part of the technical assistance provided by the Work Bank to the government, which aims to strengthen institutional capacities of government at central, provincial and district level in implementing rural sanitation activities for the NM-CH region. The programm will scaled up to 21 provinces of the NM-CH Regions with the lowest sanitation coverage.
The survey was carried out in Dien Bien, Hoa Binh, Dak Lak, Tuyen Quang with primary participants being heads of household, mothers and caretakers of children under eleven years old. The baseline survey covered information on household roster and demographics; sanitation, hygiene and water situation (infrastructure and behaviors); knowledge, attitudes and practices, including handwashing behavior using sticker diaries; and sanitation program exposure. The survey was implemented to a total of 400 households

Extra Tasks: Delivered training for enumerators; Conducted a pilot survey; Supervised fieldwork plan implementation; Resolved fieldwork and operational issues;

○ **Cao Lanh Bridge impact evaluation.**   Client: DFAT

Overview: Cao Lanh Bridge Project was the single biggest Australian aid activity in mainland Southeast Asia and a flagship of Australian development cooperation in Vietnam. Australia committed AUD 160 million to co-finance the civil works and the design and construction of supervision activities. Cao Lanh Bridge was part of the Central Mekong Connectivity Project, which was expected to benefit approximately 170,000 users daily and to improve living standards for about five million residents of An Giang, Can Tho, and Dong Thap provinces.
The Peer Review in 2013 recommended that the project needed to develop a robust analytical framework to assess its impacts. The Impact Evaluation Design identified the direct and indirect impacts and transmission channels of the project results.

Extra Tasks: Coded and prepared survey tools; Delivered training for enumerators; Conducted a pilot survey; Supervised fieldwork plan implementation; Resolved fieldwork and operational issues; Conducted qualitative survey (In-depth interview 20 organizations, and representatives of 6 industrial zones in Can Tho, An Giang and Dong Thap);

○ **Central Highlands Poverty Reduction Project.**   Client: World Bank

Overview: Central Highlands Poverty Reduction Project (GNTN) targets the 130 poorest communes in the 26 poorest districts in six provinces of the Centra l Highlands and South-Central Coast

of Vietnam (Dak Lak, Dak Nong, Kon Tum, Gia Lai, quang Nam and Quang Ngai provinces). The project aims to improve the local living standards through assistance in (a) village and commune infrastructure development; (b) sustainable livelihoods development via food security and nutrition activities; (c) connective infrastructure development, capacity building and communications (worth approximately $53 million); and (d) project management (worth approximately $17 million). The general objective of the assignment is to evaluate the understanding and perceptions of the proiect's objectives, approaches, assistance provided, and results achieved to date by proiect beneficiaries and stakeholders in order to adjust or improve the various activities, technical support, communication efforts, and participatory processes to support the ultimate achievement of the project's overall objective.

Extra Tasks: Managed qualitative data (by using NVIVO); prepared fieldwork plan; Coordinated with other contributors of project in building research framework

○ **Vietnam Public Opinion Survey 2016 for the Australian Embassy**   Client: DFAT

Overview: Australia is among the most dynamic international and regional partners of Vietnam in multiple sectors, including development assistance, trade, investment, education, tourism, etc.. As Australia has been increasing its activities within Vietnam, the country would like to acquire a comprehensive understanding of its perception among Vietnamese people. A Vietnam Public Perception Survey, hence, is crucial for this understanding.
MDRI has been commissioned by the Australian Department of Foreign Affairs and Trade (DFAT) to undertake the Vietnam Public Opinion Survey 2016 for the Australian Embassy. The survey, covering 5,000 respondents from 10 provinces all over Vietnam, provided essential findings to assist DFAT in the design and implementation of its activities in Vietnam, thereby enhancing cooperation between the two countries. The survey also explored the prevailing perceptions of Vietnamese people about key issues facing the country.

Extra Tasks: Coded and prepared survey tools; Conducted a pilot survey; Delivered training for enumerators; Supervised fieldwork plan implementation; Resolved fieldwork and operational issues; Revised survey questionnaires;

○ **Survey on Knowledge, Attitude, and Practice (KAP)**
Regarding School Eye Care   Client: The Fred Hollows Foundation

Overview: The Fred Hollows Foundation is a non-profit public health organization based in Australia, which was founded in 1992 by an eye surgeon, Professor Fred Hollows. The Foundations mission is to prevent blindness in the developing world. In Vietnam, the Fred Hollows Foundation has implemented two projects Vietnam Child Eye Care (VNCEC) and Better Eyes for Better Education (BEBE). The objectives of these projects were to improve eye care for Vietnamese students by educating children about practices and behaviour that promote eye health. To have precise evidence and to understand the feasibility of school eye screening programs, the research surveyed the knowledge, attitude and practice (KAP) of pupils, parents and teachers about eye care. The survey was fundamental to design communication activities and to improve the efficiency of the project. Therefore, The Fred Hollow Foundation has involved the Mekong Development Research Institute to conduct baseline and endline KAP surveys. 35 primary and secondary schools in three provinces (Hai Duong, Tien Giang and Da Nang) participated in the survey.

Extra Tasks: Coded and prepared survey tools; Delivered training for enumerators; Revised survey questionnaires; Conducted a pilot survey; Supervised fieldwork plan implementation; Resolved fieldwork and operational issues; Conducted fieldwork in schools in Hai Duong Province (including in-depth interviews and focus group discussions)

○ **Randomised Control Trial (RCT) on the Impact of**
Glasses Provision on Glasses Wearing
Behaviour and Educational Outcome   Client: The Fred Hollows Foundation

Overview: The Fred Hollows Foundation is a non-profit public health organization based in Australia, which was founded in 1992 by an eye surgeon, Professor Fred Hollows. The Foundation focuses on strengthening eye health systems and the treatment and prevention of avoidable blindness caused by Cataract, Trachoma, Diabetic Retinopathy, and Refractive Error. The Foundation operates in more than 20 countries including Australia and across the Pacific, South Asia, the Middle-East, East Asia, and Africa. Previous studies suggest that children with uncorrected re-

fractive errors tend to have lower scores in cognitive ability and reading tests compared with children with corrected refractive errors. However, there are no studies that measure the impact of correcting refractive errors and the impact on educational performance in Vietnam. The aim of this research was to fill this gap in the literature. The results provided information to increase the equal opportunities for access to eye care services (providing full or partial subsidies for poor children). The Foundation has involved the Mekong Development Research Institute to design and conduct research to measure the impact of glasses provision on glasses wearing and educational outcome. The research was conducted in 45 primary and secondary schools in Tien Giang.

Extra Tasks: Designed the survey; Prepared ethical approval form; Coded and prepared survey tools; Revised survey questionnaires;

○ **Assessment of residential electricity demand patterns and potential impacts of electricity tariff increases**   Client: World Bank

Overview: The study consists of enrolling 3,800 households selected in the districts of Vinh Yen, Phuc Yen in some energy conservation and subsidy programs and evaluating the impact of these programs on electricity consumption. The impact evaluation will be done using household data collected for the purpose of the study, alongside electricity consumption data collected by Vinh Phuc PC. The study consists of three phases: Sampling, Household appliances survey, Experiment implementation.

Extra Tasks: Cleaned data set;

○ **Impact Assessment of Programme 135 Infrastructure Projects Funded by Irish Aid (Fiscal year 2014-2015).**   Client: Irish Aid

Overview: Between 2011 and 2016, Irish Aid provided 30.5 million through Programme 135 to support 400 small-scale community infrastructure projects (such as rural road connections, commune centres, school rooms, clinics, etc.) in nine provinces: Ha Giang, Cao Bang, Bac Kan, Dien Bien, Thanh Hoa, Quang Tri, Quang Ngai, Kon Tum and Tra Vinh.
The purpose of the assignment is to assess the impact of the P135 infrastructure projects in a sample number of communes implementing projects supported by Irish Aid in 2015 (a grant of 4.43 million was provided in 2014 to support 70 commune construction projects in 9 Provinces in 2015). The assessment will be conducted in 4 provinces: Bac Kan, Dien Bien, Thanh Hoa, and Quang Ngai and focus on (i) the relevance of the projects to the context and needs; (ii) the effectiveness and efficiency of implementation; and (iii) the change which the projects have brought about and the sustainability of this change.

Extra Tasks: Revised survey questionnaires; Conducted fieldwork in Thanh Hoa and Dien Bien (qualitative survey including in-depth interviews and focus group discussions); Prepared survey report;

○ **Global Value Chains Survey in Viet Nam.**   Client: World Bank

Overview: The aim of the study is to better understand enterprise-level dynamics of value chain interactions, labour use, and the drivers of firm growth, investment, and job creation, as well as to identify firms opportunities and obstacles for participation in GVCs. The project is implemented in provinces across Vietnam, where firms within value chains locate. The survey covers the following sectors: i) Textile & apparel, and ii) ICT (Information and Communications Technology) with at least 500 interviews conducted in each value chain. All the stages of a value chain are covered in the study: input suppliers, processors, producers of intermediate and end products, marketers, brand-manufacturers, retailers, etc.

Extra Tasks: Cleaned data set;