

## ATTACHMENT A: CURRICULUM VITAE

NAME	HELAL AHAMMAD <i>PhD (Economics, ANU)</i>
CURRENT POSITION	Professor, Department of Economics, School of Business and Economics, North South University, Dhaka, Bangladesh
NATIONALITY	Bangladeshi and Australian (holding dual citizenship)
CONTACT DETAILS	Department of Economics, North South University Plot 15, Block B, Bashundhara Dhaka 1229, Bangladesh  <b>Phone:</b> +880-2-55668200, Ext. 6113 <b>Emails:</b> <a href="mailto:Helal.Ahammad@northsouth.edu">Helal.Ahammad@northsouth.edu</a>  <b>LinkedIn:</b> <a href="https://www.linkedin.com/in/dr-helal-ahammad-5b506735/">https://www.linkedin.com/in/dr-helal-ahammad-5b506735/</a> <b>ResearchGate:</b> <a href="https://www.researchgate.net/profile/Helal_Ahammad3/">https://www.researchgate.net/profile/Helal_Ahammad3/</a>

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### SHORT BIO

Helal Ahammad has specialised in research program leadership and collaborative project management both in academic and government settings, as well as providing technical and policy advice. His research program leadership and policy advice have involved attracting and effectively managing significant external fundings for small to large teams of subject-matter experts and professionals as well as dealing with a range of stakeholders and clients. Dr Ahammad's work has covered a range of issues and policies relating to climate change impacts, adaptation and response policies; agricultural, energy and resources sectors; international trade; Integrated science-economic modelling; and economic development.

For over two decades, he has managed and delivered on programs worth up to \$200 million (Australian) a year.

During 2015-7, as an *International Consultant*, he has successfully led and delivered an economic study on the Bangladesh ship recycling industry, jointly commissioned by the UN International Maritime Organization and the Government of the People's Republic of Bangladesh, and with financial support from the Norwegian Agency for Development Corporation.

In recognition of his expertise, research and academic publications, Dr Ahammad was selected a *Lead Author* of the Fifth Assessment Report of Working Group III of the Intergovernmental Panel on Climate Change (IPCC): *Climate Change 2014: Mitigation of Climate Change*.

In a congratulatory letter to Dr Ahammad dated 1 July 2010, the Honourable Penny Wong—at the time the Australian (federal) Minister for Climate Change, Energy Efficiency and Water

—noted the following: “... *the role of a Lead Author is a demanding one and I thank you for giving your time and expertise to undertake this role. There are considerable interest in Australia and internationally in fulfilling these roles and your selection is an indication of your eminence in the field.*”

Dr Ahammad was also a *Lead Author* of the International Assessment of Agricultural Knowledge, Science and Technology for Development (popularly known as AgAssessment) Global Report [\*Agriculture at a Crossroads\*](#).

From 1987 to 2001, Dr Ahammad held teaching and/or research positions at the University of Rajshahi (Bangladesh), the Australian National University, and the University of Western Australia. He is an *Associate* with the Australian National University’s Centre for Climate Economics and Policy. From September 2016 to May 2017, he was a *Visiting Professor* at the Department of Economics of North South University, Bangladesh.

From 2001 to 2015, Dr. Ahammad worked for the Australian (federal) Government in various senior executive positions. In these roles, he led and managed various programs and provided technical and policy advice.

In 2015, he was at the Australian (federal) Department of the Treasury where, as a *Principal Adviser*, he worked in the Macroeconomic Modelling and Policy Division. He was also at the Treasury in 2007, when he contributed to setting up the modelling and analytical capability for the whole-of-government’s climate change policy analysis for the Australian (federal, state and territory) governments.

Between March 2001 and June 2014, in various senior executive roles, he was responsible for setting up the strategic direction and providing executive leadership for a number of ABARES’ research programs. (ABARES, the Australian Bureau of Agricultural and Resource Economics and Sciences, is the research arm of the Australian Government Department of Agriculture and Water Resources.) In these roles, he attracted large research grants; managed research teams and partners; provided policy briefs and advice to stakeholders including the (federal) Minister of Agriculture and the senior executives of the then Department of Agriculture (and its predecessors) on issues relevant to his areas of responsibility, drawing on multidisciplinary research and sound evidence. At ABARES, he managed a team of up to 30 economists, scientists and modellers.

Between July 2014 and March 2015, Dr Ahammad led a much larger and spatially dispersed team of about 80 staff, responsible for managing the former Department of Agriculture’s business services covering its large and varied property portfolio, a range of corporately delivered services and procurement activities, enterprise risks, business continuity and whole-of-government crisis support, and Comcover Insurance. In this role, he managed a program budget of about \$200 million (Australian) a year.

Dr Ahammad was intimately involved with, and has contributed substantially to, the Australian Government’s climate change policy development through ABARES, the Treasury, the former Department of Climate Change and Energy Efficiency, the Garnaut Climate Change Review, and the Prime Ministerial Task Group on Emissions Trading.

Recognising his broader contributions to climate change research and policy advice the [2012-2013 Annual Report](#) of the Australian (federal) Government Agriculture Department noted the following:

*“... one of our staff selected as a Lead Author for the Fifth Assessment Report of Working Group III of the Intergovernmental Panel on Climate Change (IPCC). Dr Helal Ahammad, Assistant Secretary of the ABARES Climate Change and Variability Branch, is contributing to Chapter 11 on ‘Agriculture, Forestry and Other Land Uses’. The IPCC is the leading body assessing climate change. Dr Ahammad’s IPCC engagement offers valuable opportunities to share ABARES research and interact with the world’s leading climate change experts and decision-makers.”* (page 33).

In addition to leading and undertaking research and providing policy briefs and advice to a range of stakeholders, Dr Ahammad has published in reputable refereed journals including [Agricultural Economics](#), [Australasian Journal of Regional Studies](#), [Economic Modelling](#), [Energy Economics](#), [Global Change Biology](#), [Proceedings of the National Academy of Science](#), [Resources Policy](#) and [Review of Urban and Regional Development Studies](#). He has also published a book on Bangladesh: [Foreign Exchange and Trade Policy Issues in a Developing Economy: The Case of Bangladesh](#).

Dr Ahammad has represented his organisations and presented his (independent and team) works at various professional, policy discussion and modelling forums including at the UN Food and Agriculture Organization, UN International Maritime Organization, International Food Policy Research Institute, the World Bank, the Asian Development Bank, AgMIP—an agriculture-focused international climate change modelling forum, and the Stanford University’s Energy Modelling Forum (EMF). He also co-Chaired Stanford University’s EMF Land-Use Modelling subgroup’s activities.

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## EDUCATION & TRAINING

PhD in Economics, The Australian National University, Australia, 1994

Master in Economics of Development, The Australian National University, Australia, 1990

MA in Economics (*First Class, First*), The University of Rajshahi, Bangladesh, 1986

BA Honours in Economics (*First Class, First*), The University of Rajshahi, Bangladesh, 1984

Higher Secondary Certificate (stood *First in the Arts Group* of the Secondary and Higher Secondary Education Board), Rajshahi, Bangladesh, 1979

### Selected professional development programs undertaken:

- The (Australian Government) Senior Executive Service Professional Development Program in Risks Management (Comcover, 2014)
- The (Australian Government) Senior Executive Service Leadership and Development Program (the then Australian Government Department of Agriculture, 2013-14)
- Briefing Australian Public Service Decision Makers and Ministers (Australian Public Service Commission, 2010)

- Developing Cabinet Submissions (Australian Public Service Commission, 2010)
- The (Australian Government) Senior Executive Service Orientation Training (Australian Public Service Commission, 2007)
- Leadership Excellence Program (Yellow Edge, 2006)
- Presentation Skills Training (Tony Shephard, 2008-14)
- Exchanging Constructive Feedback Workshop (the former Australian Government Department of Agriculture, Fisheries and Forestry, 2006)
- Supervisors Workshop (UnitedLearning, 2006);
- Project Management Workshop (the then Australian Government Department of Agriculture, Fisheries and Forestry, 2005); and
- Security Briefings (various, 2001-14)

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## **ACADEMIC AWARDS/GRANTS/HONOURS**

2001-2014: Numerous fundings from the Australian Government and non-government sources including industries and UN agencies

1997-2000: Australian Research Council Grants

1990-93: Asian Development Bank and Japan Scholarship

1988-89 and, again, 1993: Colombo Plan Fellowship awarded through the then Australian International Development Assistance Bureau (AIDAB or AusAID)

1979 and 1984: Presidential Awards (Bangladesh)

1980-84: University Grants Commission Awards (Bangladesh)

1978-1982: Highest Scholarship, Secondary and Higher Secondary Education Board, Rajshahi, Bangladesh

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## **AREAS OF POLICY/RESEARCH INTEREST AND EXPERTISE**

Climate Change Impacts and Mitigation Policies

Agricultural, Land-Use Change and Forestry Economics

Energy and Resources Economics

Trade and International Economics

Development Economics; and

Methodologies and Modelling Frameworks including Computable General Equilibrium (CGE) and Integrated Assessment (IA) models

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## **CORE COMPETENCIES**

### **A. Shapes Strategic Thinking**

*Relevant capabilities and behaviours*

- Inspires a sense of purpose and direction
- Maintains strategic focus
- Recognises opportunities and harnesses information

- Shows judgment, intelligence and common sense

## **B. Achieves Results**

*Relevant capabilities and behaviours*

- Possesses organisational capability
- Exerts professional expertise
- Implements change
- Clarifies ambiguities
- Ensures closure and delivery

## **C. Exemplifies Personal Drive and Integrity**

*Relevant capabilities and behaviours*

- Practises professionalism and probity
- Demonstrates risk-taking and personal courage
- Demonstrates action orientation
- Shows resilience and self-awareness
- Commits to personal development

## **D. Cultivates Productive Working Relationships**

*Relevant capabilities and behaviours*

- Nurtures internal and external relationships
- Facilitates co-operation and partnerships
- Values differences and diversity
- Guides, mentors and develops people

## **E. Communicates with Influence**

*Relevant capabilities and behaviours*

- Communicates clearly
- Listens, understands and adapts to different audiences
- Negotiates persuasively

## **F. Professional Knowledge, Skills and Abilities**

I have **substantial experience in research leadership and policy advisory** roles. For over 25 years, I have been leading, undertaking and delivering applied economic research, specialising in public policy analysis for evidence-based policy advice. My applied research and policy advice has covered a wide range of issues. I have managed and supervised big, multidisciplinary teams; and developed and delivered multi-faceted work programs independently as well as in co-operation with partners.

Over the years, I have **undertaken various professional and expertise development programs** (see the 'Education & Training' section above). I am committed to learning from others, and **proactively seek 360° feedback**. I encourage and do undertake constructive, two-way feedbacks with my senior colleagues and reporting staff during and outside any formal performance appraisal sessions. I also seek feedbacks on my performance and leadership through open and honest discussions with my peers.

I possess **advanced understanding of economics, highly developed technical knowledge and analytical skills**. I have had formal degrees in economics including a PhD from the Australian National University. Over the years, I have successfully completed numerous high-quality research projects, leading to professional publications including in reputed academic journals. Throughout my career, I have applied economic principles, robust analytical framework and large-scale economic and science-economic integrated models for policy analysis and advice. At ABARES, I was involved in generating economic projections for industry outputs, employments and key macroeconomic variables as well as population projections for major countries, using state-of-the-art modelling frameworks and

plausible assumptions. I am fairly familiar with econometric/statistical techniques, and have published my own econometric work in academic journals.

I have extensive experience in **constructing and using large-scale economic and science-economic integrated models**. At ABARES, I was responsible for the maintenance and innovative applications of its two flagship models: Global Trade & Environment Model (GTEM) and Australian Regional Economic Model (AusRegion), ensuring quality analysis and modelling integrity. Some of the distinctive features of these large-scale computable general equilibrium (CGE) models include detailed specification of energy generation and conversion technologies and demographic modules that feature over 100 age cohorts by gender, capturing dynamic interactions between energy production and usage, economic decision making in production, consumption and transactions and demographic transitions. For my work, I have also **dealt with large-scale data** and often ‘interrogated’ data series. My team contributed to various ABARES surveys, collaborated with the Australian Bureau of Statistics in designing the Australian (biennial) Land Management Practices Survey, and used these survey data for research and policy advice.

I have accumulated substantial experience, and got involved, in many multidisciplinary, inter-agency and inter-governmental processes and activities. I have established and maintained **extensive network of national and international** experts and professionals in a range of areas including climate change, green growth and investment, biodiversity, economic development, and economic and Integrated Assessment (IA) modelling; and stayed tuned to national and international developments in related fields. I have participated in various research and leadership forums and activities through effective and productive involvements with, for example, Intergovernmental Panel on Climate Change (IPCC), the Agricultural Model Intercomparison and Improvement Project (AgMIP), International Assessment of Agricultural Knowledge, Science and Technology for Development (IAASTD or Ag-Assessment), the Stanford University’s Energy Modelling Forum (EMF), the Asian Development Bank, UN Food and Agriculture Organization (FAO), UN International Maritime Organization (IMO) and International Food Policy Research Institute (IFPRI).

I possess **sound knowledge of**, and apply **good judgement on, critical issues and political sensitivities** around policy developments and reforms. Over the years I have presented and communicated substantive research papers, policy conclusions and recommendations to senior policymakers at the Australian federal government level in a clear, concise and convincing manner.

In addition to providing policy briefs and advice to a range of stakeholders, I have **published work** in international refereed journals. My *curriculum vitae* includes selected published works including those done jointly with team members and external collaborators.

I have extensive experience in **representing my organisations** including at the Australian federal government’s various Parliamentary committees and inter-Departmental committees; as well as at the Australian Department of Agriculture’s peak governance committees. My *curriculum vitae* includes a list of selected workshop participations and agency representation by me at important national and international agencies and forums. Through my work, I have gained substantial experience and expertise in **industry stakeholder engagement and management**.

I have considerable experience in public-sector research (for example, ABARE/S and Treasury) and academic research (Australian National University and University of Western Australia). Together with my advanced understanding of economics, statistics and technical modelling, well-developed leadership skills, professional networks, I am confident that I shall be able to contribute substantially to the strategic and professional leadership of an agency.

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## RECENT CAREER HIGHLIGHTS

Contributed and presented two papers *The Bangladesh ship recycling industry: Economic performance and prospect* and *On the design of climate change mitigation policies: Some insights*, The 2017 NSU (international) Economics Conference. (March 2017).

Led and successfully completed an economic study *Contributions of Ship Recycling in Bangladesh: An economic assessment* for the UN International Maritime Organization and the Government of the People's Republic of Bangladesh. (2016-17)

Represented the Australian (federal) Treasury at the 'whole-of-government' modelling advisory committee and the UNFCCC Taskforce Working Group. (2015)

Acted as a Lead Author, Chapter 11 of the Working Group III contribution to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change (IPCC). Represented the Chapter 11 authors for the IPCC 'Costs and Potential' and 'Scenario as an Integrating Element' cross-cutting groups' activities. (2012-14)

Set the strategic direction for, and developed and delivered ABARES' research programs on climate change impacts, mitigation and adaptation as well as on Australia's biosecurity. Led a series of studies on climate change and Australia's biosecurity issues, and thereby promoting awareness and appreciation of my agency's science-economics integrated research and policy-advice capacity within the Australian Department of Agriculture and more broadly. (2010-14)

Led a comprehensive 'public consultation' on options for improving the National Livestock Identification System (NLIS) for sheep and goats; and the development of a 'decision' Regulatory Impact Statement on alternative NLIS options for consideration by the Australian Federal, State and Territory agricultural ministers. (2013-14)

Participated in the UN Food and Agriculture Organization Expert Consultation workshop on 'Global Food Production under Changing Climate and Increased Variability: Implications for Trade and Food Policy', and presented 'Climate Change and International Agrifood Trade: AgMIP multi-model comparisons', Rome. (2013)

Published a series of papers (jointly with international experts) on climate change issues in reputed international journals and books. (2013-15)

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## WORK EXPERIENCE

### **September 2016 to May 2017**

Visiting Professor, Department of Economics, School of Business and Economics  
NORTH SOUTH UNIVERSITY, DHAKA, BANGLADESH

#### ***Role:***

- To teach undergraduate and graduate students.
- To undertake and supervise academic research and other activities.
- To disseminate research findings through targeted workshop and discussions.

**Highlights:**

- Taught Introductory Microeconomics, Special Topics in Economics, and Advanced Methods in Development Research
- Written the following papers: *The Bangladesh ship recycling industry: Economic performance and prospect*, and *Evolving regulatory environments and the prospect for the Bangladesh ship recycling industry*

**November 2015 to August 2016**

International Consultant, An Economic Analysis of the Ship Recycling Industry in Bangladesh,  
UN INTERNATIONAL MARITIME ORGANIZATION, LONDON, UK

**Role:**

- To lead and provide strategic oversight for an economic analysis of the ship recycling industry in Bangladesh as part of the broader project *Safe and Environmentally Sound Ship Recycling in Bangladesh (SENSREC) — Phase I*.
- To liaise with clients and stakeholders including the UN International Maritime Organization, the Bangladesh Ministry of Industries, and the Bangladesh Ship Breakers' Association.
- To bring international expertise to bear on the preparation of the economic analysis, contribute to the overall structure and report compilation, oversee the survey and data collection activities, and prepare the draft and final report for the client; and
- To disseminate the research report and findings through targeted workshops and discussions.

**Highlights:**

- Successfully led and delivered the study *Contributions of Ship Recycling in Bangladesh: An economic assessment*.
- Presented the economic study and key findings at the SENSREC Dissemination Workshop in June 2016 and SENSREC Closure Workshop in Feb 2017, respectively.

**April – October 2015**

Principal Adviser, Macroeconomic Modelling and Policy Division, Macroeconomic Group,  
THE AUSTRALIAN GOVERNMENT DEPARTMENT OF THE TREASURY, CANBERRA

**Role:**

- To assist in the leadership and management of the division.
- To provide strategic oversight and technical advice on economic modelling and climate change policy and productivity analysis.

**Highlights:**

- Represented the Treasury on the whole-of-government modelling advisory committee and the UNFCCC Taskforce Working Group of the Australian (federal) Government.

## **July 2014 – March 2015**

Assistant Secretary, Commercial Business Branch, Financial and Business Support (FaBS) Division  
THE AUSTRALIAN GOVERNMENT DEPARTMENT OF AGRICULTURE, CANBERRA

### ***Role:***

- To lead and set strategic direction and priorities of the Commercial Business branch, incorporating department's broader strategies (including the Finance Strategy 2014-19) and FaBS Divisional Business Plan 2014-15, for the Agriculture Department:
  - property portfolio management;
  - management of a range of corporately delivered services and procurement activities (including Accounts Payable; uniforms and the whole-of-government arrangements for Credit Cards; travel, stationary and office supplies; fleet and hire cars);
  - enterprise Risk management, Business Continuity and whole-of-government crisis support, and the management of Comcover Insurance; and
  - specialist IT systems (e.g. Concur and eTRIM) management.
- To manage a program budget of about \$200 million (Australian) a year.
- To lead a team of over 80 professionals and subject-matter experts.
- To provide high-quality advice in a timely and financially responsible and consistent manner, complying with the department's legislative and regulatory obligations; and taking into consideration the department's business needs, government priorities and market intelligence regarding property, goods and services being procured nationally.
- To contribute to Senior Executive Service (SES) leadership and 'corporate' activities of FaBS, the department and, more broadly, across the Australian Public Service (APS).
- To liaise with clients, stakeholders and collaborators effectively.
- To model and uphold APS values and behaviours: To conduct and commit to services in an ethical, impartial, accountable and respectful manner.
- To ensure that staff members are aware of, and do comply with, Department of Agriculture's security and fraud policy and CEO directions (articulated in the Accountable Authority Instructions, Delegations, etc.), and demonstrate 'corporate' behaviour that is consistent with the APS iCARE Values and Code of Conduct.

### ***Highlights:***

- Developed and executed the Commercial Business Branch Roadmaps 2014-17 and Implementation Plans 2014-15 by key function.
- Successfully engaged a new property service provider for the department.
- Rolled out an elaborate staff assistance program for Concur, the online expense management system of the department.
- Development of the department's property management strategic plan.

## **March 2001 – July 2014**

Assistant Secretary, Adaptation and Biosecurity Branch (October 2013 to July 2014); Assistant Secretary/General Manager, Climate Change and Variability Branch (July 2011 to September 2013); Chief Analyst (July 2010 to June 2011); General Manager, Climate Change and Environment Branch (March 2007 to June 2010); Manager, Climate Change and Trade Section (2005 - March 2007); and Senior Economist and Modelling Coordinator (2001-2004)

THE AUSTRALIAN BUREAU OF AGRICULTURAL AND RESOURCE ECONOMICS AND SCIENCES (ABARES) AND ITS PREDECESSOR (ABARE)

### ***Role:***

- To lead, develop, manage or undertake, and deliver ABARES' research programs and evidence-based policy advice on a range of issues. Often, the work involved providing integrated scientific-economic analyses and policy advice, well regarded by professional and policy-advisory groups. Although focused on the Department of Agriculture's portfolio industries, the work extended to understanding and analysis of energy technologies and related policy issues taking whole-of-government and international perspective as appropriate.
- To lead a research team of up to 30 economists, scientists and modellers; and coordinate innovative applications of GTEM and AusRegion– ABARES' flagship computable general equilibrium models of the global economy and the national economy respectively, and GIAM– ABARES' Integrated Assessment (IA) model. Ensured rigorous quality assessments and peer reviews, and thereby making ABARES' modelling widely credited and recognised both nationally and internationally as evidenced by contributions to reputed modelling forums such as the Agricultural Model Intercomparison and Improvement Project (AgMIP) and Stanford University's Energy Modelling Forum (EMF).
- To lead the management of clients and stakeholders including from the relevant agencies of the Commonwealth and State or Territory governments, academic and research communities and portfolio industries.
- To represent ABARES in various national and international forums; and present research findings, policy conclusions and recommendations to senior policymakers at the federal level, as well as to various national and international forums.
- To contribute to the Senior Executive Service (SES) leadership and 'corporate' activities of ABARES, the department and, more broadly, across the Australian Public Service (APS).
- To model and uphold APS values and behaviours: To conduct and commit to services in an impartial, accountable, respectful and ethical manner.
- To ensure that staff members are aware of, and do comply with, the department's security and fraud policy and CEO directions, and demonstrate 'corporate' behaviour that is consistent with the APS Values and Code of Conduct.

### ***Highlights:***

- Managed a range of organisational issues: maintaining 'professional independence' while staying close to policy processes; building and maintaining long-term organisational capacity while responding to current policy discussions and research needs; working in partnership with various stakeholders and within a 'whole of government' context but without compromising the integrity of research and analysis.
- Secured research fundings from external sources to complement internal and appropriation funded research programs.
- Dealt with issues around knowledge management and skills retention.
- Acted as a Lead Author for Working Group III contribution to the IPCC Fifth Assessment Report *Climate Change 2014: Mitigation of Climate Change*.

- Acted as a Lead Author for the International Assessment of Agricultural Knowledge, Science and Technology for Development (IAAKSTD) global report *Agriculture at a Crossroads*.
- Led a comprehensive ‘public consultation’ on the National Livestock Identification System (NLIS) for Sheep and Goats for developing a ‘decision’ Regulatory Impact Statement (RIS) on the issue for consideration by the Australian Federal, State and Territory agricultural ministers. Given the sensitivity around the issue across States and Territories, led the development and implementation of an extensive engagement and communication strategy for industry stakeholders including industry peak bodies, as well as working closely with relevant Federal, State and Territory government agencies. The outcome was a ‘decision’ RIS, processed through the Office of Best Practice Regulation, that reflected comprehensive array of views and perspectives, informing the ministerial decision making.
- Contributed to the Australian Government’s climate change policy development through ABARES, Department of the Treasury, (former) Department of Climate Change and Energy Efficiency, the Garnaut Review, and the Prime Ministerial Task Group on Emissions Trading.
- Led ABARES’ research programs on climate change impacts, mitigation and adaptation, natural resource management under the Government’s Caring for our Country initiative as well as on biosecurity, with particular focus on issues associated with agriculture and other land use sectors.
- Led ABARES contributions to the development and implementation of Australian Government’s domestic emissions offsets market– the Carbon Farming Initiative.
- Led ABARES assessment of economic abatement potential in Australia’s agriculture and other land use sectors, compliant with the domestic emissions offsets market.
- Led ABARES contributions to AgMIP, a global forum on agricultural model intercomparison and improvement focusing on climate change impacts under selected scenarios, contributing to a number of articles in *Agricultural Economics*, *Proceedings of the National Academy of Science* and a chapter in a recently released UN Food and Agriculture Organization (FAO) book.
- Led and managed ABARES’ global and national computable general equilibrium models (GTEM and AusRegion) and modelling.
- Contributed to setting up climate change modelling capability in the Australian Government Department of Treasury in 2007.
- Acted as a co-Chair of Stanford University’s Energy Modelling Forum Land-Use Modelling subgroup’s activities.
- Published articles in reputed international journals including *Agricultural Economics*, *Energy Economics* and *Global Change Biology*.

Presented work in a series of workshops/conferences including:

- The UN Food and Agriculture Organization Expert Consultation workshop on ‘Global Food Production under Changing Climate and Increased Variability: Implications for trade and Food Policy’, and presented ‘Role of international trade under a changing climate: Insights from global economic modelling’, Rome, 2013.
- The OECD-INEA-FAO Workshop on *Agriculture and Adaptation to Climate Change*, Rome, 2010.
- The Korean Rural Economic Institute’s International Conference on *Green Growth*, Seoul, 2010.
- ABARES’ annual Outlook conferences in Canberra (2008– 2014).
- Victoria University of Wellington Institute of Policy Studies’ *Roundtable on Climate Change and Food Security*, Wellington, 2008.
- IFPRI-ACIAR workshop on *Exploring Alternative Futures for Agricultural Supply and Demand and Food Security*, The Australian National University, Canberra, 2008.
- The 26th *Conference of the International Association of Agricultural Economists*, Gold Coast, Queensland, 2006.

- The EMF 22: Climate Change Control Scenarios Workshop, Stanford University, California, 2005.
- The Workshop on the Incorporation of Land Use and Greenhouse Gas Emissions into the Global Trade Analysis Project (GTAP) Data Base, MIT, Cambridge, 2002.

### **November 1995 – February 2001**

Senior Research Associate, Economic Research Centre, Department of Economics  
UNIVERSITY OF WESTERN AUSTRALIA, PERTH

#### ***Role:***

- To lead research projects including those funded under the Australian Research Council SPIRT Grants (subsequently, ARC Discovery Projects Funding) program.
- To lead economic modelling teams.
- To liaise with clients and stakeholders.
- To write and disseminate research reports and findings through seminars/workshops, public discussion and academic publications; and
- To teach undergraduate and postgraduate courses.

#### ***Highlights:***

- Written high impact research reports, launched by the then Western Australia Minister for Resources Colin Barnett (subsequently became Premier of the Australian state of Western Australia) and the former Australian Federal Finance Minister Peter Walsh.
- Published articles in refereed journals including *Resources Policy*, *Australasian Journal of Regional Studies* and *Review of Urban and Regional Development Studies*.
- Presented work at the 26th and 25th Conference of Economists (Australia), 1997 and 1996, respectively.
- Contributed to organising PhD Conferences in Economics and Business at the University of Western Australia, 1997 and 1999.

### **June 1990 – October 1997**

Economic Consultant/Visiting Fellow/Tutor, Research School of Pacific and Asian Studies  
THE AUSTRALIAN NATIONAL UNIVERSITY, CANBERRA

#### ***Role:***

- To undertake economic research independently as well as in collaboration with other academics.
- To liaise with clients and stakeholders.
- To write and disseminate research reports and findings through seminars/workshops, public discussion and academic publications; and
- To teach postgraduate courses.

#### ***Highlights:***

- Published articles in journals including *Agricultural Economics*, *Bangladesh Development Studies* and *Economic Modelling*.
- Published a book *Foreign Exchange and Trade Policy Issues in a Developing Economy: The Case of Bangladesh*.

- Presented “The Liberalisation of Bangladesh’s Foreign Exchange Markets” at the International Conference on Economic Liberalisation in South Asia, The Australian National University, Canberra, November, 1994.

### **June 1987 – December 1988**

Lecturer, Department of Economics  
THE UNIVERSITY OF RAJSHAHI, BANGLADESH

#### ***Role:***

- To teach undergraduate courses; and
- To undertake economic research independently as well as in collaboration with other academics.

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## **EXPERIENCE IN ACADEMIC TEACHING AND RESEARCH**

### **Undergraduate courses**

- Microeconomics; Mathematics for Economists; Monetary Economics; Applied Economic Analysis; Asia in the World Economy;

### **Graduate courses:**

- Diploma Microeconomics; Macroeconomics of Development; Special Topics in Economics, and Advanced Methods in Development Research..

**Acted as a research supervisor, PhD thesis examiner, and reviewer for academic journals and research institutions.**

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## SELECTED PUBLICATIONS

### Journal articles

1. von Lampe, M., D. Willenbockel, **H. Ahammad**, E. Blanc, Y. Cai, K. Calvin, S. Fujimori, T. Hasegawa, P. Havlik, E. Heyhoe, P. Kyle, H. Lotze-Campen, D. Mason-D'Croz, G.C. Nelson, R.D. Sands, C. Schmitz, A. Tabeau, H. Valin, D. van der Mensbrugghe, H. van Meijl (2014). "Why do global long-term scenarios for agriculture differ? An overview of the AgMIP global economic model intercomparison." *Agricultural Economics* 45(1): 3–20.
2. Valin, H., R.D. Sands, D. van der Mensbrugghe, G.C. Nelson, **H. Ahammad**, E. Blanc, B. Bodirsky, S. Fujimori, T. Hasegawa, P. Havlik, E. Heyhoe, P. Kyle, D. Mason-D'Croz, S. Paltsev, S. Rolinski, A. Tabeau, H. van Meijl, von Lampe, M., D. Willenbockel (2014). "The future of food demand: Understanding the differences in global economic models." *Agricultural Economics* 45(1): 51–67.
3. Nelson, G.C., D. van der Mensbrugghe, **H. Ahammad**, E. Blanc, K. Calvin, T. Hasegawa, P. Havlik, P. Kyle, H. Lotze-Campen, M. von Lampe, D. Mason d'Croz, H. van Meijl, C. Müller, J. Reilly, R. Robertson, R.D. Sands, C. Schmitz, A. Tabeau, K. Takahashi, H. Valin, D. Willenbockel (2014). "Agriculture and climate change in global scenarios: Why don't the models agree." *Agricultural Economics* 45(1): 85–101
4. Nelson, G.C., H. Valin, R.D. Sands, P. Havlik, **H. Ahammad**, D. Deryng, J. Elliott, S. Fujimori, T. Hasegawa, E. Heyhoe, P. Kyle, M. von Lampe, H. Lotze-Campen, D. Mason-d'Croz, H. van Meijl, D. van der Mensbrugghe, C. Müller, A. Popp, R. Robertson, S. Robinson, E. Schmid, C. Schmitz, A. Tabeau, and D. Willenbock (2014). "Climate change effects on agriculture: Economic responses to biophysical shocks." *Proceedings of the National Academy of Science* 111(9): 3274–79. <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3948295/?report=classic>.
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## SELECTED PRESENTATIONS/CONFERENCE PARTICIPATIONS

Presented “The Bangladesh ship recycling industry: Economic performance and prospect” and “On the design of climate change mitigation policies: Some insights” at the Economics Conference *Bangladesh Toward Upper Middle Income Country Status: Challenges and Opportunities*, School of Business and Economics, North South University, Dhaka, 12 March, **2017**.

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Presented “Climate Change and International Agrifood Trade: AgMIP multi-model comparisons,” at the FAO Expert Consultation on Global Food Production under Changing Climate and Increased Variability: Implications for Trade and Food Policy, Rome, 5 November, **2013**.

Presented “Agricultural abatement in Australia: Costs and potential,” at ABARES Outlook Conference, Canberra, 5–6 March, **2013**.

Participated in the Climate Change and Green Asia Policy Conference, jointly organized by the Asian Development Bank Institute, Asian Development Bank, Global Green Growth Institute and the Climate and Development Knowledge Network, Seoul, 30–31 March, **2012**.

Presented “Carbon Farming Initiative and agriculture’s role in Australia’s low emissions future,” at ABARES Outlook Conference, Canberra, 6–7 March, **2012**.

Presented “The economics of Australian agriculture’s participation in carbon offset markets,” at ABARES Outlook Conference, Canberra, 1–2 March, **2011**.

Presented “Policy approaches to green growth in Australian agriculture: Insights from ABARE-BRS research,” at the KREI International Conference on Green Growth, Seoul, 19 November, **2010**.

Presented “Climate change impacts and adaptation: Insights from ABARES research,” at Curtin University, Perth, October, **2010**.

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Presented “The effects of an emissions offsets scheme on Australian agriculture,” at ABARES Outlook Conference, Canberra, 1–2 March, **2010**.

Presented “Opportunities for forestry under the CPRS: A closer look with some environmental constraints,” at ABARES Outlook Conference, Canberra, March, **2009**.

Presented “Climate change and food production,” at the Victoria University of Wellington Institute of Policy Studies Roundtable on Climate Change and Food Security, Wellington, 13 November, **2008**.

Presented “Emissions trading scheme and international competitiveness,” at the 5<sup>th</sup> Boathouse Conference on Climate Change and Emissions Trading: Challenges and Opportunities, Canberra, 10–11 June, **2008**.

Presented “The IAASTD trade policy scenarios and implications for Australia,” at the IFPRI-ACIAR workshop on Exploring Alternative Futures for Agricultural Supply and Demand and Food Security, Australian National University, Canberra, 2 May, **2008**.

Presented “Managing Climate Change in the Farm Sector,” at ABARE Outlook Conference, Canberra, March, **2008**.

Presented “Managing Climate Change in the Farm Sector: The Case of Gippsland Dairy Farms,” at the ABARE’s pre-conference AARES workshop on Climate Change: Issues and Challenges for the Economy and Society, Canberra, 5 February, **2008**.

Presented “Greenhouse gas emissions under selected SRES scenarios,” at International Food Policy Research Institute, Washington D.C., 20 April, **2007**.

Presented “The economic impact of climate change policy,” at the Energy Security for Australia Conference, Sydney, 23–25 October, **2006**.

Presented “On the architecture of climate change response policies,” at ABN Amro, Sydney, 11 October **2006**.

Presented “The future of agriculture: Implications for GHG emissions under IAASTD scenarios,” at the 26<sup>th</sup> Conference of the International Association of Agricultural Economists, The Gold Coast, Queensland, Australia, August 12–18, **2006**.

Presented ‘Modeling land use changes and greenhouse gas emissions in GTEM: Some illustrative scenarios,’ at the Stanford University’s EMF 22 Working Group Meeting: Climate Change Control Scenarios – Black Carbon and Land Modeling Subgroups, Hotel Washington, 515 15th Street, NW Washington, DC, February 1–3, **2006**.

Presented “Land Use Change Modeling in GTEM: Accounting for Forest Sinks” at the Energy Modelling Forum’s workshop on Climate Change Control Scenarios, Stanford University, California, 25–27 May, **2005**.

Presented “GTEM: A CGE Model of the global economy,” at the World Bank, Washington D.C., May, **2005**.

Presented “Climate Mitigation Technologies in GTEM” at the Sino-U.S.-Korea Economic and Environmental Modeling Workshop, Beijing, China, 20–21 May, **2004**.

Presented “Understanding ABARE’s Modeling for Climate Change Forward Strategy,” to the Inter Departmental Committee on the Australian Government’s Climate Change Forward Strategy, June, **2003**.

Presented “GTEM capabilities in evaluating trade policies” at the Regional Seminar on Agricultural Policies and International Negotiations organized by the Southern Agricultural Council (CAS), Buenos Aires, Argentina, 27–28 August, **2003**.

Presented “The GTEM Greenhouse Gas Emissions Database: Version 5.” at the Workshop on the Incorporation of Land Use and Greenhouse Gas Emissions into the Global Trade Analysis Project (GTAP) Data Base, MIT, Cambridge, 5–6 September, **2002**.

Presented “The Economics of New Mining and Mineral-Processing Projects in WA” at the 26<sup>th</sup> Conference of Economists, University of Tasmania, 28 September–1 October, **1997**.

Presented “Economic Issues in Modelling the WA Minerals Sector”, at the CGE Modelling Workshop, Queensland Treasury, Brisbane, 30 June–1 July, **1997**.

Presented “The Welfare Cost of Bangladesh’s Former Exchange Control System” at the 25<sup>th</sup> Conference of Economists, Australian National University, 22–26 September, **1996**.

Presented “The Liberalisation of Bangladesh’s Foreign Exchange Markets” at the International Conference on Economic Liberalisation in South Asia, The Australian National University, November, **1994**.