

## Expertise

Computable General Equilibrium Modeling, Environmental Economics

## Education

- PhD (magna cum laude)** Awarded: 2010 Area of Study: Quantitative Economics  
Title: Effects of the Oil Export Price Increase on the Economy: Theoretical and Empirical Issues – A CGE Analysis of the Case of Kazakhstan  
**Christian Albrechts University of Kiel, Germany**  
Fully funded by the German Academic Exchange Service (DAAD) and Christian Albrechts University of Kiel, Germany
- Non-degree one-year program** Advanced Studies Program (2006-2007)  
Area of Study: International Economic Policy Research  
**Kiel Institute for the World Economy, Kiel, Germany**
- MSc and and BA (distinction)** International Economics (Awarded in 2002)  
**Yasawi Kazakh-Turkish International University (KTIU), Kazakhstan**

## Work experience

- 2015 – to date** Assistant Professor in Economics  
**Nazarbayev University**
- 2012-2015** Deputy Director  
Center for the Macroeconomic and Quantitative Economic Research  
**Economic Research Institute under the Ministry of National Economy of Kazakhstan Astana**
- 2013 – 2014** Visiting Fulbright Scholar  
**Joint Program on the Science and Policy of Global Change  
Massachusetts Institute of Technology, USA**  
Research Project „The Use of Natural gas as a Feedstock in the Petrochemical Sector Production“
- 2012-2013** External Consultant  
**Consulting Company DIW Econ, Berlin**  
Project: “Integrated Approach for the Development of Climate-Friendly Economies in Central Asia”
- 2010 – 2012** Postdoctoral Research Associate  
**Masdar Institute (a cooperative program with MIT), Abu Dhabi, UAE**

## Teaching

- 2015-2016** *Subjects*: Econometrics I, Environmental Economics, Intermediate Macroeconomics, Simulation Economic Modeling  
**Nazarbayev University, Astana, Kazakhstan**
- 2011-2012** *Subject*: Applied Statistics and Research Methods for Engineering Systems  
**Masdar Institute, Abu Dhabi, United Arab Emirates**
- 2009** *Subject*: Introductory course on Econometrics for 1st year PhD students  
**Christian Albrechts University of Kiel, Germany**

## **Conferences Organized**

March 26-27, 2018, Workshop "Reframing Healthcare Policy in Kazakhstan: Demand and Supply-Side Perspectives", jointly with the LSE Health. Venue: Nazarbayev University

August 21-23, 2016, Workshop "Energy-Food-Water Nexus: Integrated Approach to Transition to Green Economy in Kazakhstan and UK" with the Center Energy 2050, Sheffield University. Venue: Nazarbayev University

August, 17-19, 2015, Workshop "Promotion of clean energy in resource-rich countries: case study of Kazakhstan" Partner: Center for Euro-Asian Studies, Reading University. Venue: Economic Research Institute

## **Participation in Conferences and Conference Proceedings**

07/2017, Future Energy Forum, International Scientific and University conference, "Transition to a Green Economy in Kazakhstan: Energy and Solid Waste Management Perspectives", Astana (invited speaker)

12/2016, KBCC Seminar, Henley Business School, Reading University, "Levelized Cost of Electricity in Kazakhstan"

10/2016, 12/2016 – ADB Interim workshops "Good Jobs for Inclusive Growth in Countries of Central and West Asia", Malaysia and Japan

12/2015 – Seminar of the Joint Program on the Science and Policy of Global Change, MIT, "Green Economy Perspectives in Kazakhstan"

11/2010 - "Environmental and sectoral development effects of pollution tax and technology transfer: a two-country analysis (with I. Tsai), presented at the 9th JEP A International Conference, Waseda University, Japan

09/2010 - "Trade and environment: a two-country model" (with I. Tsai), presented at European Trade Study Group Conference, University of Lausanne, Switzerland

06/2010 - "Implications of the oil export price increase in a two-sector model: stylized and empirical approaches. A CGE analysis for the case of Kazakhstan", presented at GTAP Conference, Penang, Malaysia

12/2007 – "Pass-through of exchange rate to domestic prices: the case of four East-Asian countries" (with Sek Siok Kun), presented at the 6th International Conference of the Japan Economic Policy Association (JEP A), Japan

11/2007 – "Effects of the oil price shocks on the economy of Kazakhstan", presented at International Economic Conference on Trade and Industry, Universiti Utara, Malaysia

## **Grants**

2015 – 2017, Ministry of Education and Science of Kazakhstan

Principal investigator

Project "Applied Models for CO<sub>2</sub> Emissions Projection and Efficient Use of Transboundary Water Resources in Kazakhstan"

Grant amount: KZT 15 mln

2015 – 2018, Intergovernmental Partnership Program of the British Council "Newton-Al-Farabi"

Co-PI

Project "Macroeconomic Effects of Health Policy Reforms in Kazakhstan"

Partner: Center for Healthcare, London School of Economics and Political Science

Grant amount: £123 986

2016, Intergovernmental Partnership Program of the British Council "Newton-Al-Farabi"

Workshop grant "Energy-Food-Water Nexus: Integrated Approach to Transition to Green Economy in Kazakhstan and UK"

Partner: Center Energy 2050, Sheffield University

Grant amount: £40 000

2015, Intergovernmental Partnership Program of the British Council "Newton-Al-Farabi"

Workshop grant "Promotion of clean energy in resource-rich countries: case study of Kazakhstan"

Partner: Center for Euro-Asian Studies, Reading University  
Grant amount: £40 000

## **Publications**

### **Chapters**

Key Structural Reforms in Selected Sectors: Assessing their Impact on Economic Diversification, 2018 (with Edimon Ginting, Mark Horridge, Deeptha Wijerathna). In Kim Anderson, Giovanni Capanelli, Edimon Ginting, Kiyoshi Taniguchi (ed.): *Kazakhstan: Accelerating Economic Diversification*, 2018. ADB.  
<http://dx.doi.org/10.22617/TCS189413-2>

Low carbon cities and the development of cleantech innovation clusters in oil-rich economies: a case study on Masdar city. In Yelena Kalyuzhnova and Richard Pomfret (ed.): *Sustainable energy in Kazakhstan. Moving to Cleaner Energy in Resource-Rich Countries*, 2017. Routledge Taylor and Francis Group. (with Nitin Kumar and I-Tsung Tsai). Available at: <https://www.taylorfrancis.com/books/9781138238442>

### **Journal publications**

Priorities and challenges for a sustainable management of water resources in Kazakhstan. *Journal: Sustainability of Water Quality and Ecology* (with Marat Karatayev, Adilet Kongyrbay, Galiya Movkebayeva, Lazat Spankulova, Aizhan Skakova). Volumes 9–10, November 2017, Pages 115-135. <https://doi.org/10.1016/j.swaqe.2017.09.002>

Utility subsidy reform in Abu Dhabi: A review and a Computable General Equilibrium analysis. *Renewable and Sustainable Energy Reviews*. Vol. 55, March, 2016, pp. 1352-1362 (with Yanxiang Wang, Shaikha Ali Almazroei, Ali Diabat, I-Tsung Tsai). <https://doi.org/10.1016/j.rser.2015.07.099>

Are Low Carbon Cities Attractive to Cleantech Firms? Empirical Evidence from a Survey. *Sustainable Cities and Society*. Vol. 13. October 2014 (with Toufic Mezher, Nawal Al Hosany, I-Tsung Tsai). <https://doi.org/10.1016/j.scs.2014.05.005>

Pass-through of exchange rate to domestic prices: the case of four East-Asian countries. *The International Journal of Economic Policy Studies*. Volume 3 (2008) article 3 (with Siok Kun Sek). Available at: [http://www.jepa-hq.com/ijeps/content/2008/articles/SekNKapsalyamova\\_IJEPS08.pdf](http://www.jepa-hq.com/ijeps/content/2008/articles/SekNKapsalyamova_IJEPS08.pdf)

### **Monograph**

Effects of the Oil Export Price Increase on the Economy: Theoretical and Empirical Issues – A CGE Analysis of the Case of Kazakhstan. VDM Verlag. 2011.

### **Work in progress**

- Macroeconomic Effects of Health Policy Reforms in Kazakhstan
- Electricity Market in Kazakhstan: Levelized Cost of Electricity (with Syrymbet Kaskeyev).
- Long-term projections for global use of natural gas in industry (with Sergey Paltsev).
- Energy policies in CGE models (with Aidyn Bakdolotov, Chingiz Shuneyev)

### **Services**

- Reviewer of abstracts of the annual Global Trade Analysis Project (GTAP) conference in 2012 and 2017
- Reviewer of the abstracts of the European Society for Central Asian Studies (ESCAS) and the Central Eurasian Studies Society (CESS) conference in Bishkek, 2017
- Associate Editor for the Journal “Econometric Research in Finance”, Warsaw School of Economics
- Supervision of Master students in the MA Program for Eurasian Studies and MA Program in Economics, Nazarbayev University

## **Languages**

Kazakh (native), Russian (fluent), English (fluent), Turkish (intermediate), German (intermediate).

## **Computer Skills**

GAMS, Mathematica, Matlab, Stata JMulti, Microsoft Office