

# Yunguang Chen

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## EDUCATION

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**PhD, Applied Economics**, Oregon State University, Corvallis, 2015

**Graduate Certificate, Statistics**, Purdue University, West Lafayette, 2010

**MS, Agricultural Economics**, Purdue University, West Lafayette, 2010

**BS, Food Science, Purdue University**, West Lafayette, 2008

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## RESEARCH & WORK EXPERIENCE

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**Post-Doctoral Fellow**, Resources for the Future (RFF), Washington, DC 2015-Present

- Applying a dynamic computable general equilibrium (CGE) model with detailed U.S. Federal-State fiscal systems to measure the cost-effectiveness of a budget-neutral carbon tax policy with different revenue recycling designs.
- Building a multi-regional extension of the CGE model to assess regional economic impacts and leakage rate under the interactions between federal and state energy policies.
- Developing an employment-search model with frictions to analyze the dynamics of job shifts under environmental regulations.
- Building a California water-CGE model to optimize water management strategies in times of drought or flood emergency.

**Research Associate**, Center for the Blue Economy (CBE) - National Ocean Economics Program (NOEP), Middlebury Institute of International Studies at Monterey 2014-2015

- Designed a tradable development permit system to preserve coastal natural infrastructure that serves as storm surge buffer zones.
- Developed an integrated socioeconomic-environment index to measure the U.S. coastal communities' vulnerability and resilience to sea level rise.
- Produced NOEP 2015 Congressional District Report of the U.S. Ocean and Coastal Economies.

**Research Assistant**, Dept. of Applied Economics, Oregon State University 01/2012-12/2014

- Constructed an integrated engineering-economic, multi-regional CGE model to assess the regional economic vulnerability to a potential Cascadia Tsunami event in Oregon.
- Performed benefit-cost analysis of infrastructure adaptation designs to mitigate the risks of tsunami induced flood damages.
- Drafted reports to promote public-private partnership in financing disaster mitigation projects.

- Built a community sorting model to estimate the effects of amenities on the regional economic recovery from timber industry losses after the Northwest Forest Plan in Oregon.

**Research Assistant**, Food Innovation Center, Oregon Extension Service 2012-2014

- Performed demand analysis of organic and conventional fresh fruits at the retail level and evaluate the effectiveness of marketing strategies.
- Assessed the impact of food safety regulations on small food businesses.

**Marketing Consultant**, Columbia River Carbonates (CRC), Woodland, WA 2012-2013

- Developed a GIS-Business Analyst based model to forecast the demand of new soil conservation products.
- Conducted financial analysis of CRC's production expansion projects.
- Drafted 2013 Business Plan for the CRC's agriculture department.

**Research Assistant**, Department of Agricultural Economics, Purdue University 2008-2010

- Performed risk assessment of commodity prices in response to regional crop production fluctuations and agriculture policy changes.
- Evaluated the risk management effectiveness and conducted benefit-cost analysis of the Average Crop Revenue Election Program under the 2008 Farm Bill.

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## COMPUTER & LANGUAGE SKILLS

- **Computers skills:** GAMS, SAS, MatLab, ArcGIS, ArcGIS Business Analyst, IMPLAN, Hazus-MH, R, SQL, STATA, and Microsoft Office Suite including @risk and Marco
- **Languages Skills:** English and Chinese

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## PUBLICATIONS & PRESENTATIONS

Chen, Yunguang and Marc Hafstead. "Using a carbon tax to meet U.S. international climate pledges." RFF Discussion Paper and 109th National Tax Association Annual Conference Proceedings. 2016. *Manuscript submitted for publication.*

Hafstead, Marc and Yunguang Chen. "The Paris Agreement under Trump and the Merits of an Economy-Wide Carbon Tax" RFF Blog Post. 2017

Chen, Yunguang, Yong Chen, Bruce Weber, Jeff Reimer. "A Sub-County, Multi-Regional Computable General Equilibrium Model for the Assessment of Disaster Resilience Plans." 55th Meeting of the Southern Regional Science Association. 2016

Chen, Yunguang, Yong Chen, Bruce Weber, Jeff Reimer, Daniel Cox, Patrick Corcoran and Hyongsu Park. 2015. "An Integrated Engineering-Economic Model for the Assessment of Regional Vulnerability to Natural Disasters." *Manuscript submitted for publication.*

Chen, Y., Corcoran, P., Chen, Y., Weber, B., Cox, D. Wiebe, D. "Using an Economic-Engineering Model to Improve Estimations of both Direct and Indirect Economic Impacts". Columbia-Pacific Economic Development District and NW Oregon Economic Alliance Meeting. 2014

Chen, Yunguang, Yong Chen, Bruce Weber, Daniel Cox, Patrick Corcoran and Hyongsu Park. "Deriving Spatially-Explicit Industry Networks for an Improved Economic Impact Assessment". Selected Paper. Pacific Northwest Regional Economic Conference. 2014.

Chen, Yunguang, Yong Chen, Bruce Weber, Daniel Cox, Patrick Corcoran and Hyongsu Park. "An Integrated Engineering-Economic Vulnerability Assessment Tool--An Assessment of Tsunami Impact on Coastal Communities". Selected Paper. Agricultural & Applied Economics Association Annual Meeting. 2014.

Chen, Yunguang, H. Holly Wang, and George Patrick. "New Government Support Programs in the US: the Average Crop Revenue Election", Selected Paper. CAER-IFPRI Annual International Conference on Agriculture and the Wealth of Nations. 2011.

Chen, Yunguang, H. Holly Wang, and George Patrick. "The Impact of the Average Crop Revenue Election on Farmers' Risk Management Decisions". Selected Paper. Agricultural & Applied Economics Association Annual Meeting. 2010.

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## VOLUNTEERING EXPERIENCE

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**Senior Fellow**, Center for the Blue Economy (CBE), Middlebury Institute of International Studies at Monterey 2016-Present

- Fostering collaborations and responding to inquiries on ocean and coastal management research.

**VP Public Relations**, Toastmasters International, Corvallis, OR 2014-2015

- Drafted news releases about club activities, member achievements, and special events.

**Clerk Volunteer**, Habitat for Humanity, Corvallis, OR 2010-2011

- Assisted with proposals and presentations for the organization's new housing loan policies.