

## Meriem Hamdi-Cherif

36, avenue Laplace  
94110 Arcueil – France

e-mail: [hcmeriem@centre-cired.fr](mailto:hcmeriem@centre-cired.fr)

mobile: +33 (0) 6 63 49 19 47

phone: +33 (0) 1 43 94 73 74



French/Algerian

## CURRENT POSITION

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*Research fellow* - IMACLIM modelling team – CIRED (Centre International de Recherche en Environnement et Développement)

*Research fields:* Assessment of climate policies and mitigation costs – Links between energy-environment and development

*Methods:* Integrated assessment modeling – long-term socioeconomic scenarios

## EDUCATION

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- 2016 PhD. in Economics, EHESS (Ecole des Hautes Etudes en Sciences Sociale, Paris).  
Thesis title: "*Aligning development and energy policies under climate constraints in China - Lessons from a second-best general equilibrium framework*".
- 2002 Master in Applied Mathematics, University Paris VI, P. et M. Curie
- 2001 Maîtrise, Licence (2 degrees) in Applied Mathematics, University Paris VI, P. et M. Curie
- 1998 DEUG M.I.A.S. (a two year degree in mathematics), University Paris VI, P. et M. Curie
- 1996 Mathematics High School Diploma. Lycée Henri IV.

## PUBLICATIONS

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### SUBMITTED OR UNDER REVISION

**Hamdi-Cherif M.** and O’Broin E. “The transportation sector as a lever for reducing long-term mitigation costs in China”. Submitted in *China Economic Review*.

**Hamdi-Cherif, M.** and Waisman, H., “Economic Globalization, Global energy issues and Climate Change - China in global perspective”. Submitted in *Energy Policy*

Cassen, C., **Hamdi-Cherif, M.**, Toniolo, J. and Cotella, G. “Energy Security Scenarios of Future Europe. An evaluation of upscaling pioneer experiences in a low carbon context”. Under revision in *Energy research and social science*.

## IN PEER-REVIEWED JOURNALS

Li, J., **Hamdi-Cherif** M., and Cassen C., 2017. "Aligning domestic policies with international coordination in a post-Paris global climate regime: A case for China". *Technological Forecasting and Social Change*. <https://doi.org/10.1016/j.techfore.2017.06.027>

**Hamdi-Cherif** M. and Waisman H., 2016. "Global carbon pricing and the "Common but differentiated responsibilities" - The case of China". *International Environmental Agreements: Politics, Law and Economics*. Volume 16, 671–689. DOI 10.1007/s10784-015-9289-2

Bibas, R., Mejean, A. and **Hamdi-Cherif**, M., 2015. "Energy Efficiency policies and the timing of action: an assessment of climate mitigation costs". *Technological Forecasting and Social Change*, Volume 90, Part A, 137-152.

Bauer, N., Bosetti, V., Calvin K., **Hamdi-Cherif**, M., Kitous, A., McCollum, D., Méjean, A., Shilpa, R., Turton, H., Paroussos, L., Ashina, S., Wada, K., 2015. "CO2 emission mitigation and fossil fuel markets: Dynamic and international aspects of climate policies". *Technological Forecasting and Social Change*, Volume 90, Part A, 243-256.

Kriegler, E., Riahi, K., Bauer, N., Schwanitz, J., Petermann, N., Bosetti, V., Marcucci, A., Otto, S., Paroussos, L., Rao, S., Arroyo Curras, T., Ashina, S., Bollen, J., Eom, J., **Hamdi-Cherif**, M., Longden, T., Kitous, A., Méjean, A., Schaeffer, M., Wada, K., Capros, P., van Vuuren, D., Edenhofer, O., 2015. "Making or breaking climate targets: The AMPERE study on staged accession scenarios for climate policy". *Technological Forecasting and Social Change*, Volume 90, Part A, 24-44.

Keywan Riahi; Elmar Kriegler; Nils Johnson; Christoph Bertram; Michel den Elzen; Jiyong Eom; Michiel Schaeffer; Jae Edmonds; Morna Isaac; Volker Krey; Thomas Longdon; Gunnar Luderer; Aurelie Mejean; David L McCollum; Silvana Mima; Hal Turton; Detlef P van Vuuren; Kenichi Wada; Valentina Bosetti; Pantelis Capros; Patrick Criqui; Meriem **Hamdi-Cherif**; Mikiko Kainuma; Ottmar Edenhofer, 2015. "Locked into Copenhagen Pledges - Implications of short-term emission targets for the cost and feasibility of long-term climate goals". *Technological Forecasting and Social Change*, Volume 90, Part A, 8-23.

Waisman, H., Cassen, C., **Hamdi-Cherif**, M. and Hourcade Jean-Charles, 2014. "Sustainability, Globalization, and the Energy Sector - Europe in a Global Perspective". *Journal of Environment and Development*, Volume 23 (1), 101-132.

**Hamdi-Cherif**, M., Guivarch, C. and Quirion, P., 2011, "Sectoral targets for developing countries: Combining "Common but differentiated responsibilities" with "Meaningful participation"", *Climate Policy*, Volume 11, Number 1, 731-751(21).

Quirion, P. and **Hamdi-Cherif**, M., 2007, "General equilibrium impact of an energy-saving policy in the public sector", *Environmental and Resource Economics*, Volume 38, Number 2. p 245-258.

## OTHER PUBLICATIONS

**Hamdi-Cherif**, M., C. Guivarch and P. Quirion, 2011. Une approche sectorielle pour la production d'électricité dans les pays en développement : enseignements du modèle Imaclim-R, dans *Economie du climat : des pistes pour l'après-Copenhague*, O. Godard et J.-P. Ponsard (dir.), Presses de l'école Polytechnique.

Crassous, R., Hourcade, J-C., Sassi, O., Gitz, V., Mathy, S. and **Hamdi-Cherif**, M., 2006. “Imaclim-R : a Modeling Framework for Sustainable Development Issues” . Background paper for *Dancing with Giants: China , India and the Global Economy*. Institute for Policy Studies and the World Bank, Washington, DC.

## WORKING PAPER

**Hamdi-Cherif** M., Ghersi F., 2012, “Correcting the ‘self-trade’ issue in the GTAPAgg software” - Technical Paper- CIRED working paper, DT/WP No 2012-39, <http://www.centre-cired.fr/spip.php?article1378&lang=en>

## ACADEMIC CONFERENCES, SEMINARS AND PRESENTATIONS

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*“Global mitigation costs- When and What flexibilities revisited in a second-best framework”.*

- 23<sup>rd</sup> Annual Conference of the European Association of Environmental and Resource Economists, Athens, Greece, June 2017.
- Integrated Assessment Modelling Consortium 9<sup>th</sup> annual conference, Beijing, China, December 2016.

*“The transportation sector as a lever for reducing long-term mitigation costs in China”.*

- Interdisciplinary Ph.D. Workshop on Sustainable Development, Columbia University – New York City, April 03–04, 2015
- International BE<sub>4</sub> Workshop, Senate House – London, April 20–2, 2015.( UCL)
- 34<sup>th</sup> International Energy Workshop, International Renewable Energy Agency (IRENA), Abu Dhabi, June 03–05, 2015
- Our Common Future Under Climate Change, Side event (UC Berkeley/MINES ParisTech) Innovations in Decarbonization, Exploring the pathways and actions needed to prevent climate change, Paris, July 10, 2015
- Integrated Assessment Modelling Consortium 8<sup>th</sup> annual conference, Potsdam, November 2015. (Poster)

*“Contrôle de la mobilité et objectifs de décarbonation en Chine”*

- Journée de la Chaire Modélisation Prospective au Service du Développement Durable. Prospective pour les enjeux Energie-Climat, MINES ParisTech – PARIS, 2 mars 2015

*“Economic Globalization, Global Energy issues and Climate Change - China in global perspective”.*

- 33<sup>rd</sup> International Energy Workshop, Energy Research Institute - Beijing, June 04–06, 2014.
- GTAP 17<sup>th</sup> Annual Conference on Global Economic Analysis, DAKAR - SENEGAL, June 18–20, 2014.
- 6<sup>th</sup> Atlantic Workshop on Energy and Environmental Economics, A Toxa - Galicia - Spain, June 25-26, 2014.

*“The costs of a global climate agreement for China- A tale of carbon price, “when flexibility” and quota allocation”.*

- 26<sup>th</sup> PhD Workshop on International Climate Policy, Paris – 25-26 April 2013
- GTAP 16<sup>th</sup> Annual Conference on Global Economic Analysis, Shanghai, China– 12-14 June 2013
- International Energy Workshop, Paris, June 19-21, 2013
- 62<sup>nd</sup> Annual Meeting of the FRENCH ECONOMIC ASSOCIATION AFSE Aix-en-Provence, June 24-26, 2013.

*“The determinants of mitigation costs: emission profile, revenue recycling and transport infrastructure”.*

- GTAP 15<sup>th</sup> Annual Conference on Global Economic Analysis, Genève (Switzerland), June 27-29, 2012

*“Mitigation costs in second-best economies: time profile of emission reductions and sequencing of accompanying measures”.*

- 5<sup>th</sup> Atlantic Workshop on Energy and Environmental Economics. A Toxa, Galicia, Spain. June 25-26, 2012.
- 12<sup>th</sup> IAEE European Energy Conference- Ca' Foscari University of Venice, Ital, September 9-12, 2012.

*“Reducing the costs of Copenhagen climate pledges in a post-Kyoto world”.*

- International Energy Workshop – 31<sup>st</sup> edition. University of Cape Town. South Africa, June 19-21, 2012.

*“Sectoral targets for developing countries: Combining "Common but differentiated responsibilities" with "Meaningful participation”.*

- EAERE Rome 29 June- 2 July, 2011.
- International Energy Workshop - 30<sup>th</sup> edition. Stanford University, USA, July 6-8, 2011.
- International Conference EAERE - Environment and Natural Resources Management in Developing and Transition Economies. CERDI - Clermont Ferrand, November 18-19, 2010.

*“Addressing a self-trade issue in GTAPAgg”.*

- GTAP, 14<sup>th</sup> Annual Conference on Global Economic Analysis, Ca' Foscari University of Venice - San Giobbe Campus. Venice, Italy, June 16-18, 2011.

*“Using mini\_ker tools for macroeconomic calibration: the IMACLIM-R model and the Entropy approach”.*

- Pluridisciplinary seminar of the work group on the Evolution Formalism by Transfer (collaboration LMD, LE, CIRED, ENS), Tarbes. July, 2005.

## EXPERTISE/ RESEARCH PROJECTS

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**CFE** (Conseil Français de l’Energie), 2016-2018, “Carbon price and “climate finance”: how to ensure an equitable access to development”.

*Developing and analyzing scenarios with Imaclim-R.*

**Milesecure-2050**, 2013-2016, multidisciplinary EU FP7 Project, aims to understand and overcome the political, economic and behavioral traits and trends of energy security issues in Europe.

*Developing and analyzing scenarios with Imaclim-R, in a multidisciplinary context*

**GLOBIS** (Globalization Informed by Sustainable Development), multidisciplinary EU FP7 Project, 2009-2014, dedicated to reconciling the three global processes: globalization, development and sustainable development.

*Developing and analyzing scenarios with Imaclim-R, in a multidisciplinary context.*

**AMPERE**, EU FP7 Project, 2011-2014, dedicated to the "Assessment of Climate Change Mitigation Pathways and Evaluation of the Robustness of Mitigation Cost Estimates", in collaboration with 21 partners from Europe and Asia.

*Developing and analyzing scenarios with Imaclim-R, in a context of model intercomparison exercises*

**EDF**, 2010, Exploration of the triptych growth - carbon price - price of fossil fuels with the IMACLIM-R model.

*Developing and analyzing scenarios with Imaclim-R.*

**CLIMA**, European project within **Asia-Link Programme**, 2006-2009, dedicated to higher education networking between Europe (France, Italy and Netherlands) and Asia (Pakistan and China).

*Supervision and development of the scientific content; Organization and management of workshops.*

**GICC** (Management and Impacts of Climate Change), 2004; CNRS (CIRED-LMD-CEPII-LEPII-EPE). Consolidating Long term Scenarios capacities: control data, coupling models. <http://www.centre-cired.fr/IMG/pdf/RapFinScen.pdf>

*GTAP data processing.*

## TEACHING

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**“Aligning Development, Energy and Climate”** (in French, *“Peut-on concilier développement, Energie et Climat?”*)

Master EEET-M2 Economie de l'énergie (2016), Semaine Changement Climatique- Athens

AgroParisTech ENGREF (2009-2016), ENSTA/ParisTech (2013-2016), Master “Politiques et Actions Publiques pour le Développement Durable” /ENPC ParisTech (2012).

**“Climate change: statement and challenges of the COP21”** with Valérie Masson-Delmotte (in French, *“Changement climatique : état des lieux et enjeux de la COP21”*)

Master "Environnement"-Université Paris-Saclay (2015).

**“Techno-economic modeling in the context of climate and environmental regulation”** (in English).

Master “Climate, Land-Use and Ecosystem Services”, Université Paris-Saclay – AgroParisTech (2015)

**“Development and climate issues and challenges...what are the links?”** (in French, *“Enjeux de développement et enjeux climatiques...quels liens ? ”*)

Erasmus Mundus Master in Sustainable Territorial Development, Université Paris 1 Panthéon Sorbonne (2012-2013)

**“Assessment of GHG mitigation policies with a multisectoral macroeconomic modeling tool – the example of Imaclim-R”** (in French, *“Evaluation des politiques de réduction des GES par une modélisation macro-économique pluri-sectorielle- L'exemple d'Imaclim-R”*)

Master Biosphère Continentale, AgroParisTech-Université Paris 6 (2011-2013)

**Development Economics, International Economy, Money (Cash economy), Microeconomics, Public Economy.** (Senior Lecturer in Economics for one year (ATER), in French)

University of Marne la Vallée (2006-2007).

**Macroeconomics, Statistics.** Teaching assistant (chargée de TD) at University of Marne la Vallée 2003-2005.

## SUPERVISING STUDENTS RESEARCH

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### **“Analyzing INDC scenarios with the Imaclim-R model”**

Within the modeling course of the master Economie de l’Energie, de l’Environnement et des Transports-AgroParisTech (2016-2017).

## NON-ACADEMIC SEMINARS AND CONFERENCES

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### **"Climate negotiations and socio-economic prospective" (in french).**

Presentation at the people’s university of Antony, within the cycle Chaud et froid sur le climat. November, 2015.

### **"UNFCCC and climate negotiations- from 1992 to 2015" (in french).**

Presentation at the Journée scientifique de Météo et Climat - Enjeux et perspectives de la COP21- Ministère de l’Ecologie, du Développement durable et de l’Énergie- Paris, 29 octobre 2015.

### **“Links between Climate Change, Energy and Development” (in French).**

Presentation for inmates at the Bois d’Arcy prison. Organized by Champs Libre within the cycle Climat et Energie. October 2015.

Participation in the debate/round table : **"ISSUES AND PROSPECTS OF THE COP21"** (in french).

12<sup>ème</sup> FORUM INTERNATIONAL DE LA MÉTÉO ET DU CLIMAT – PARIS CLIMAT 2015/COP21 – Parvis de l’Hotel de ville de Paris. Mars 2015.

### **"History of the climate international negotiations" (in English).**

Presentation at the French embassy of Prague. Climate, Science, Knowledge and Governance. Prague, November, 2014.

## LANGUAGES AND COMPUTER SKILLS

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French (native), Arabic (native), English (fluent).

Programming: Scilab, Matlab.

## SOCIAL SKILLS AND COMPETENCES

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Good ability to adapt to multicultural environments - Work in various teams from social and voluntary sector to research teams.

Hobbies: Singing /Cooking.

## REFERENCES

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Stéphane Hallegatte

Senior Economist  
Climate Change Group  
World Bank

[shallegatte@worldbank.org](mailto:shallegatte@worldbank.org)

Celine Guivarch

Senior researcher  
CIRED

[guivarch@centre-cired.fr](mailto:guivarch@centre-cired.fr)

Henri Waisman

Researcher  
IDDRI

[henri.waisman@iddri.org](mailto:henri.waisman@iddri.org)