

Minh HA-DUONG

Personal

Date of birth	February 25th, 1969
Nationality	French
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Employment history

2003 - to date	Full time researcher (Directeur de Recherche since 2009) at CNRS. Centre International de Recherche sur l'Environnement et le Développement (CIREC). http://www.centre-cired.fr .
2005 - 2007	Adjunct professor, ENPC (École Nationale des Ponts et Chaussées), master « Transport and Sustainable Development ».
2000 - 2003	Visiting researcher at the Center for Integrated Study of the Human Dimensions of Climate Change, Engineering and Public Policy Department, Carnegie Mellon University, Pittsburgh.
1997 - 2000	Full time researcher at CIREC. Tenured at CNRS (Centre National de la Recherche Scientifique) as Chargé de Recherche in 1998.
1996 - 1997	Mathematics teacher, Ferdinand Buisson High School, Antony, France.
1993 - 1996	Doctoral student at École des Hautes Études en Sciences Sociales, Paris. Teaching Assistant at Paris VIII University.

Education

2005	Habilitation à Diriger les Recherches Ha-Duong (2005) Modèles de précaution en économie: introduction aux probabilités imprécises. <i>Université de Paris I</i> .
1994 - 1998	PhD in Economic Analysis and Policy Ha-Duong (1998) How to account for irreversibility in integrated assessment of climate change? <i>École des Hautes Études en Sciences Sociales, Paris</i> .
1991 - 1993	Engineer, French Institute of Forestry, Agricultural and Environmental Engineering (ENGREF), Paris.
1989 - 1991	Engineer, École Polytechnique, Palaiseau. Major: Economics, Minor: Finance. Research internship (3 months) at the <i>Banque Régionale d'Escompte et de Dépôt</i> (BRED) on the optimal hedging of the interest rate risk.
1988 - 1989	Military service, Midshipman aboard the Primauguet anti-submarine frigate.

Skills

Languages	French: native, English: fluent, Vietnamese: basic
Programming	<i>Mathematica</i> , GAMS, Office, L ^A T _E X, C++, Perl, HTML, CSS, PHP, javascript, GNU/Linux
Research areas	Integrated assessment, risk & uncertainty analysis, real and quasi option value, stochastic dynamic programming, environmental economics. Imprecise probabilities, microeconomics, systems theory, futures studies, public opinion.
Policy issues	Climate change, Carbon Capture and Sequestration

Honors

2008	Lead Author for the Intergovernmental Panel on Climate Change (IPCC), WG III, chap. 2, which was co-awarded the 2007 Nobel Prize for Peace.
06/2003	Adjunct professor, Engineering and Public Policy Department, Carnegie Mellon University, Pittsburgh, PA.
06/2005	Medal of voluntary military services (bronze), Navy, France.
03/2011	Bibliometry: Google scholar plain cites=561, $h=11$, $g=23$, $e=19$, $n=29$

Recent research projects

I will be the Lead Researcher for France in the EC PCRD7 research project "R&Dialogue", budget 4.5M€, with partners from 10 member States, under final negotiations.

I was the Principal Investigator for the ANR research project "Economie et Sociologie de la filière Capture et Stockage Géologique du CO₂" (SOCECO₂), budget 455 k€ (CIRED: 235k€), partners: ALSTOM, APESA, BRGM, Gaz de France, IFP, INERIS, TOTAL.

I was the Lead CIRED Researcher for the ADEME research project "Méthodologie de sélection des sites de stockage du CO₂ dans des réservoirs souterrains en France 2" (METSTOR 2), budget 190 keuros (CIRED: 95), partner: BRGM.

Economic, social and cultural impact

Since 2007, our research groups organized 5 conferences or workshops on carbon capture and storage, 2 were open to stakeholders, 3 were for a scientific audience.

I consult for associations, economic actors or media 2-3 times a year, mostly by telephone.

In addition to supervising doctoral students, I teach 2-4 times a year, mostly at engineering schools or summer schools.

Some of my results were showcased in popular media such as *Le Monde*, *Liberation*, *The Guardian*, *Pour la Science*, *TF1*.

I contribute to the IPCC Assessment Reports, generally considered authoritative for national and international climate policymaking.

Research management experience

Since 2008 I manage the participation of the Ecole des Ponts Paristech in the Industrial Chair on Carbon Capture Transport and Storage.

Since 2003, I lead the CIRED research group in socio-economics of the energy transition and carbon capture and storage. We are national leaders in this research area. I directly supervise 1 doctoral student, 1.5 Ingénieur d'Etude CNRS and 0.5 Ingénieur de Recherche. In addition the research group includes 1 senior researcher, 2 doctoral students, and a variable number of interns.

From 1995 to 2000, I was in charge of the integrated assessment modeling team at CIRED, including the budget, the reporting for 4 research contracts, the organisation of meetings and overall coordination with European co-contractors.

Between 2008 and 2010 I was a member of the Comité National de la Recherche Scientifique, section 37, the committee of peers in charge of evaluating CNRS researchers and labs.

I am a member of the Conseil de Laboratoire since its creation in 2008. Before that, I created and chaired a Laboratory Coordination Committee from 2005 to 2007.

I led initiatives that led to the adoption of the XLab accounting system (1998), the SPIP website content management system (2006), and the HAL open access archive for the dissemination of our scientific production (2006). I am currently leading our lab's archive digitization project (off-shored).

Selected publications

Minh Ha-Duong and Naceur Chaabane, editors. *Le captage et le stockage du CO2. Enjeux techniques et sociaux en France*. Collection Update Sciences & Technologies. Quae, February 2010. ISBN 978-2-7592-0369-7.

Minh Ha-Duong. What is the price of carbon? Five definitions. *Survey and Perspectives Integrating Environment & Society*, 2 (1), June 2009

Sebastian Kopf, Minh Ha–Duong, and Stéphane Hallegatte. Using maps of city analogues to display and interpret climate change scenarios and their uncertainty. *Natural Hazards and Earth System Sciences*, 8 (4):905–918, August 2008.

David W. Keith, Minh Ha-Duong, and Joshua K. Stolaroff. Climate strategy with CO2 capture from the air. *Climatic Change*, 74 (1-3):17-45, January 2006

Minh Ha-Duong. Hierarchical fusion of expert opinion in the Transferable Belief Model, application to climate sensitivity. *International Journal of Approximate Reasoning*, 49 (3):555-574, November 2008.

Minh Ha–Duong, Gérard Mégie, and Didier Hauglustaine. A pro–active stratospheric ozone protection scenario. *Global Environmental Change*, 13 (1):43–49, April 2003. doi:10.1016/S0959–3780(02)00087–0.

Minh Ha–Duong, Michael J. Grubb, and Jean–Charles Hourcade. Influence of socioeconomic inertia and uncertainty on optimal CO2–emission abatement. *Nature*, 390:270–274, 1997

Publications

<http://minh.haduong.com/>

Blog

<http://captagestockageCO2.eu/>