

# Dr. Minh HA-DUONG, DR CNRS

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| <b>Nationality</b> | French and Vietnamese, born 25 February 1969 in Paris   |
| <b>Address</b>     | CIREC, CNRS; Campus du Jardin Tropical: 45 bis avenue de la belle Gabrielle; 94736 Nogent sur Marne, France |
| <b>Contact</b>     | haduong@centre-cired.fr, +33 6 68 52 59 15, <a href="http://minh.haduong.com">http://minh.haduong.com</a>   |

## Employment history

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| <b>2003 – to date</b> | Full time senior researcher (Directeur de Recherche) at CNRS. Centre International de Recherche sur l'Environnement et le Développement (CIREC). <a href="http://www.centre-cired.fr">http://www.centre-cired.fr</a> . Occasional teacher, expert, keynote speaker, jury, reviewer. |
| <b>2018 – 2019</b>    | Executive Chairman, Research at the Vietnam Initiative for Energy Transition Social Enterprise, Hanoi. <a href="https://vietse.vn">https://vietse.vn</a>  |
| <b>2014 – 2018</b>    | Visiting professor at University of Science and Technology of Hanoi, founder of the Clean Energy and Sustainable Development lab.   |
| <b>2000 – 2003</b>    | Visiting researcher at the Center for Integrated Study of the Human Dimensions of Climate Change, Engineering and Public Policy Department, Carnegie Mellon University, Pittsburgh.   |
| <b>1997 – 2000</b>    | Full time researcher at CIREC. Tenured at CNRS (Centre National de la Recherche Scientifique) in 1998.  |

## Education

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| <b>2005</b>        | Habilitation à Diriger les Recherches<br>Ha-Duong (2005) Modèles de précaution en économie: introduction aux probabilités imprécises. <i>Université de Paris I</i> .                               |
| <b>1994 - 1998</b> | PhD in Economic Analysis and Policy<br>Ha-Duong (1998) How to account for irreversibility in integrated assessment of climate change? <i>École des Hautes Études en Sciences Sociales</i> , Paris. |
| <b>1991 - 1993</b> | Engineer, French Institute of Forestry, Agricultural and Environmental Engineering (ENGREF), Paris.  |
| <b>1989 - 1991</b> | Engineer, École Polytechnique, Palaiseau. Major: Economics, Minor: Finance.  |

## Skills

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| <b>Languages</b>       | French: C2 native, English: C2 fluent, Vietnamese: B1 basic independent user  |
| <b>Programming</b>     | Python, GAMS, <i>Mathematica</i> , L <sup>A</sup> T <sub>E</sub> X, C++, Perl, HTML, CSS, PHP, javascript.  |
| <b>Research topics</b> | Integrated assessment, risk & uncertainty analysis, real and quasi option value, stochastic dynamic programming, environmental economics. Imprecise probabilities, microeconomics, systems theory, futures studies, public opinion. |
| <b>Policy areas</b>    | Vietnam energy transition, Climate change international policy  |

## Honors

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|---------|--|
| 2008    | Lead Author for the Intergovernmental Panel on Climate Change, 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.   |

## Selected publications (h=26)

DW Keith, M Ha-Duong, JK Stolaroff (2006) Climate Strategy with Co2 Capture from the Air. *Climatic Change* 74 (1-3), 17-45

M Ha-Duong, MJ Grubb, JC Hourcade (1997) Influence of socioeconomic inertia and uncertainty on optimal CO<sub>2</sub>-emission abatement. *Nature* 390 (6657), 270-273

M Grubb, T Chapuis, M Ha-Duong (1995) The economics of changing course: Implications of adaptability and inertia for optimal climate policy. *Energy policy* 23 (4-5), 417-431

M Ha-Duong, N Treich (2004) Risk aversion, intergenerational equity and climate change. *Environmental and Resource Economics* 28 (2), 195-207

R Swart, L Bernstein, M Ha-Duong, A Petersen (2009) Agreeing to disagree: uncertainty management in assessing climate change, impacts and responses by the IPCC. *Climatic change* 92 (1-2), 1-29

H Kunreuther, S Gupta, V Bosetti, R Cooke, V Dutt, M Ha-Duong, H Held et al. (2014) Integrated risk and uncertainty assessment of climate change response policies. *Climate Change 2014: Mitigation of Climate Change*. IPCC Working Group III, Cambridge University Press.

NT Nguyen, M Ha-Duong (2009) Economic potential of renewable energy in Vietnam's power sector. *Energy Policy* 37 (5), 1601-1613

## Selected research projects participation

In 2018, I founded –with a core team of my former PhD students– the Vietnam Initiative for Energy Transition, a philanthropy-funded quasi-independent think tank in Hanoi. I defined the initial strategy, wrote the whitebook, hired an Executive Director, and continue to ensure the quality of the research produced.

During the seventh EU research program (2013-2015), I was co-Principal Investigator, leader for the France team of the R&Dialogue research project. We facilitated in ten countries a low-carbon dialogue with representatives from energy, the low-carbon R&D community, social actors and others.

In 2006-2009, I was Principal Investigator of the SOCECO<sub>2</sub> project, funded by ANR. Among all key research and coordination tasks I supervised an IMACLIM model study on macro-economic impacts of Carbon Capture and Storage and renewable energies in France.

During the fourth EU Framework Program (1995-1998), I was co-Principal Investigator to the international collaborative research project “Integrated assessment modeling, assessment of climate risks and precautionary policy” (INASUD), with contribution from IVM, IIASA, SMASH and RIIA. I was responsible for the French modeling, and lead author on the final report delivered in July 1998 to the European Union, DG XII.