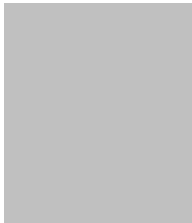



PERSONAL INFORMATION

Dr. Brian Walsh



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 www.felixmodel.org

Sex Male | Date of birth 31/07/1986 | Nationality American

WORK EXPERIENCE

Jan 2014 - Present

Research Scholar, Ecosystems Services and Management

International Institute for Applied Systems Analysis (IIASA)

- I develop and analyse scenarios using FeliX, a systems dynamics model, to project and assess the likely consequences of novel technologies and policies in the agriculture and energy sectors.

[Research](#)

March 2010 – May 2013

Author and Collaborator, ATLAS Experiment

European Centre for Radionuclear Research (CERN)

- I performed a first-of-its-kind search for new physics using data from the Large Hadron Collider. My responsibilities included design and execution (in C++ & Python) of a search for new physics on collision data,
- This included: Monte Carlo development and testing; data cleaning and precision background analysis; mining for signals among large backgrounds; measurements of signal significance, statistical limits, and confidence intervals; measurements of physics parameters with associated statistical and systematic uncertainties.

[Research](#)

EDUCATION AND TRAINING

March 2010 – May 2013

Doctor of Philosophy

Yale University, New Haven, CT

- Particle Physics (Tobias Golling, advisor)

June 2008 – March 2010

Master of Science Master of Philosophy

Yale University, New Haven, CT

- Particle Physics (Tobias Golling, advisor)

August 2004 – May 2008

Bachelor of Science

University of Notre Dame, Notre Dame, IN

Magna Cum Laude

August 2004 – May 2008

Bachelor of Arts

University of Notre Dame, Notre Dame, IN

Magna Cum Laude

- Program of Liberal Studies (Great Books)

PERSONAL SKILLS

Mother tongue(s)

English

Communication skills ▪ Good communication skills gained through my years of experience in large, multinational scientific collaborations.

Programming competencies • C/C++; HTML, Python; SQL; LaTeX; VBA

ADDITIONAL INFORMATION

Selected publications **Walsh, B.** et al. (2015). New feed sources key to ambitious climate targets. *Carbon Balance and Management*, 10(1), 1–8.

International Resource Panel. Policy Coherence of the Sustainable Development Goals, United Nations Environmental Programme, Nairobi, Kenya (2015)

D. Leclère, P. Havlk, S. Fuss, E. Schmid, A. Mosnier, **B. Walsh**, H. Valin, M. Herrero, N. Khabarov and M. Obersteiner, Climate change induced transformations of agricultural systems: insights from a global model, *Environ. Res. Lett.* 9, (2014) 124018

Thesis publication ATLAS Collaboration, Search for Direct Top Squark Pair Production in Final States with One Isolated Lepton, Jets, and Missing Transverse Momentum in 7 TeV pp Collisions Using 4.7 fb⁻¹ of ATLAS Data, *Phys. Rev. Lett.* 109 (2012) 211803