

# John Kingston White

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## OVERVIEW

I have worked as a project manager, data analyst, physicist, lecturer, and writer during a 35-year career in industry, academia, and government, creating original research in physics, engineering, and finance. I wrote [Do The Math! On Growth, Greed, and Strategic Thinking](#) (Sage, 2012), which includes topics on numeracy, cultural statistics, and critical thinking, and the literary thriller [The House of Words](#) (Tuttle House, 2013). I have also written numerous [articles](#) and technical documents and have contributed to a number of journals and blogs. I am currently working on *Energy in the 21<sup>st</sup> Century*.

## MY STRENGTHS INCLUDE

- designing and writing technical documentation and training materials
- analysing data in numerous computer environments
- teaching scientific and technical subjects
- managing and organising projects to deadline
- researching and reporting on complex systems

## COMPUTER SKILLS

- Matlab, Fortran, C, JavaScript, Java, Visual Basic, VBA, Python, SPSS, Illustrator, Publisher, ECDL, HTML

## LANGUAGES

- English (native), Spanish (B2), French (B1), German (A2)

## WORK EXPERIENCE

Consultant / author / adjunct lecturer	Jan 2012–	University College Dublin / University of Oviedo / Sage / Fisis Financial
Lecturer / researcher	Jan 2003–Dec 2011	University College Dublin (School of Physics)
Project manager / computational analyst / technical writer	Sep 1992–Dec 2002	The Netherlands Organisation, Berminghammer Foundation Equipment, Sun Microsystems
Computational analyst / technical writer	Mar 1987–Oct 1992	Ontario Government (Ministry of Education), Interactive Image Technologies, ScotiaBank
Nuclear physicist / programmer	Sep 1984–Feb 1987	Atomic Energy of Canada Ltd. / Ontario Hydro

## MAJOR WORK

As a physicist and lecturer at **University College Dublin**, I wrote research papers, taught undergraduate and graduate courses in physics and engineering, and was the coordinator of a €1.7 million FP7 EU academia-industry grant. My research involved modelling laser-produced plasmas for next generation lithography light sources using Hartree-Fock methods, Gaussian analysis, and atomic statistics. I also produced undergraduate laboratory videos, created technical drawings for three books, and created and edited the School of Physics newsletter, *Fizz*. For a taught Masters program, I created a [Computing and Computational Analysis course](#), Part I of which is now online. At the **University of Oviedo**, I taught 2 modules in the [CLIL/MEILIC Masters program](#), edited various journal papers, and was the moderator of a weekly [educational forum](#) at the CPR in Asturias.

As a computational analyst and technical writer for **The Netherlands Organisation** and **Berminghammer Foundation Equipment**, I designed and wrote technical and promotional documents for use by in-house engineers, clients, and prospective customers for a novel foundation engineering system. I wrote software applications and simulated field tests to a high degree of accuracy using computer codes created in Quick Basic, Excel, and C. I was also the editor and co-organiser of an international conference, editor of an industry newsletter *Fulcrum*, and created a database of test results.

I have worked as a project manager and consultant for a number of companies. I wrote financial algorithms and reports for **Fisis Financial**, created an internationalization website for **Sun Microsystems (Oracle)**, and a statistical scoring system to analyse OAIP test data for the **Ontario Ministry of Education**. For **Interactive Images Technologies**, I wrote a college-level workbook for their simulation package Electronics Workbench, for **ScotiaBank**, I wrote a user manual for their trading system, and for **Atomic Energy of Canada** and **Ontario Hydro**, I created a statistical fission product release model and made changes to CANDU safety and licensing codes.

## BOOKS and BOOK CHAPTERS

- 2013 John K. White, [The House of Words](#), Tuttle House, Dublin, 2013
- 2012 John K. White, [Do the Math: On Growth, Greed, and Strategic Thinking](#), Sage, Thousand Oaks, CA, 2012.
- 2010 J. White, P. Dunne, and G. O'Sullivan, "[Steady-state and time-dependent LPP modeling](#)," *Lithography*, Michael Wang (Ed.), ISBN: 978-953-307-064-3, INTECH, 2010.

## SELECTED ARTICLES

- 2017 [How big is my tribe? Crisis in Catalonia](#), *CounterPunch*, November 8, 2017.  
[Liars, Damn Liars, and Scoundrels](#), *CounterPunch*, June 13, 2017.  
[President Mudslinger](#), *CounterPunch*, March 3, 2017.  
[Is Equality Overrated, Too?](#), *CounterPunch*, January 17, 2017.
- 2015 [Where to Bat Your Best Hitter](#), *Fan Graphs*, September 3, 2015.  
[Trickle-Down Democracy](#), *CounterPunch*, April 10, 2015.  
[Science in the Age of Opinion](#), *CounterPunch*, March 6, 2015.  
[Made in Spain: ArcelorMittal Steel](#), *Caracolas*, February 11, 2015.
- 2014 [Returning to live in Ireland after 30 years, I was hatched](#), *The Irish Times*, December 9, 2014.  
[The Manufactured Need](#), *CounterPunch*, September 2, 2014.  
[Renewable Energy in Spain](#), *Caracolas*, August 30, 2014.  
[The World Cup of Oil](#), *CounterPunch*, July 7, 2014.  
[All the World's a Strategy](#), *CounterPunch*, April 23, 2014.
- 2013 [Music Statistics: Seeing the Business Side to Songs](#), *The World of Statistics*, October 17, 2013.  
[Teeter-Totter Averages: How to See Everyday Statistics](#), *The World of Statistics*, August 19, 2013.  
[Patterns in Probability: How to See Binomial Statistics](#), *The World of Statistics*, July 8, 2013.
- 2010 [Soundbite Science: Mr Bacon your time is up](#), *The University Observer*, March 30, 2010.
- 2009 [Small Is Getting Smaller](#), *The University Observer*, April 14, 2009.
- 1994-2008 *Fizz, Technology Ireland, Physics in Ireland*, "Computer solutions," *Fulcrum* (various).

## SELECT ACADEMIC PUBLICATIONS

- 2009 J. White, P. Dunne, P. Hayden, and G. O'Sullivan, [Simplified one-dimensional calculation of 13.5 nm emission in a tin plasma including radiation transport](#), *Journal of Applied Physics*, **106** 113303, 2009.
- 2008 J. White, G. O'Sullivan, S. Zakharov, P. Choi, V. Zakharov, H. Nishimura, S. Fujioka, and K. Nishihara, [Tin laser-produced plasma source modelling at 13.5 nm for extreme ultraviolet lithography](#), *Appl. Phys. Lett.*, **92**, 151501, 2008.
- 2007 J. White, P. Dunne, P. Hayden, F. O'Reilly, and G. O'Sullivan, [Optimising 13.5-nm laser-produced tin plasma emission as a function of laser wavelength](#), *Appl. Phys. Lett.*, **90**, 181502, 2007.
- 2007 J. White, A. Cummings, P. Hayden, P. Dunne, and G. O'Sullivan, "[Simplified calculation of non-local thermodynamic equilibrium excited state populations contributing to 13.5-nm emission in a tin plasma](#)," *J. Appl. Phys.*, **101**, 04330, 2007.
- 2005 J. White, P. Hayden, P. Dunne, A. Cummings, N. Murphy, P. Sheridan and G. O'Sullivan, "[Simplified modeling of 13.5 nm unresolved transition array emission of a Sn plasma and comparison with experiment](#)," *J. Appl. Phys.*, **98**, 113301, 2005.

## SELECT TALKS (GENERAL and ACADEMIC)

- 2018 [Women in Science](#), Escuela Oficial de Idiomas de Gijón, March 8.
- 2017 [Future Energy Today](#), Escuela Oficial de Idiomas de Gijón, March 14.
- 2014 [May the mass times acceleration be with you -- Sir Isaac Newton](#), IES Montevil, Gijón, May.
- 2009 [Steady-state and time-dependent LPP modelling](#), Sematech EUV Source Workshop, Baltimore, May 29–30.

## EDITORIAL

- 2006-2010 Referee, *Journal of Applied Physics*.
- 2005-2008 Editor, *Fizz*, The Newsletter of the School of Physics.
- 1994-1996 Editor, *Fulcrum*, The Newsletter of the Deep Foundations Institute

## TECHNICAL PUBLICATIONS

- 1999 *VIBRA*, The Netherlands Organisation.
- 1998 *Sonic Integrity Testing*, The Netherlands Organisation.
- 1997 *PDA/Dynamic Load Testing*, The Netherlands Organisation.
- 1995 *Proceedings of the First International Statnamic Seminar*, Vancouver (Editor).
- 1994 *Mark V Series Diesel Hammer*, Berminghammer Foundation Equipment.
- 1993 *Statnamic*, Berminghammer Foundation Equipment.
- 1991 *The Electronics Workbook*, Electronics Workbench, Interactive Images Technology.

## OUTREACH ACTIVITIES

Popular science lectures (2017-2018), Institute of Physics intervarsity quiz moderator (2009-2013), Transition-year lectures (2009-2013), Radar exhibition for Young Scientist/UCD (2006-2010), School talk program, Iraq-Ireland Teacher's conference lecture, Course applets, UCD Open Day Demonstrator.

## EDUCATION

Ph. D., University College Dublin ("Opening the extreme ultraviolet lithography bottleneck").  
B. Sc., (First-class Honours Applied Physics), University of Waterloo (Ontario).