

# John Kingston White

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## OVERVIEW

I have worked as a project manager, analyst, physicist, lecturer, and writer throughout a 30-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, the literary thriller [\*The House of Words\*](#) (Tuttle House, 2013), and numerous documents and articles. I also contribute to a number of journals and blogs.

## MY STRENGTHS INCLUDE

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

## COMPUTER SKILLS

- Matlab, Fortran, C, JavaScript, Java, Visual Basic, VBA, Python, SPSS, Illustrator, 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 created technical drawings for three books. I produced [undergraduate laboratory videos](#), created and edited the School of Physics newsletter, *Fizz*, and was the coordinator of a €1.7 million FP7 EU academia-industry grant. For a new taught Masters program, I created a [Computing and Computational Analysis course](#), Part I of which is now online. My research involved modelling laser-produced plasmas for next generation lithography light sources using Hartree-Fock methods, Gaussian analysis, and atomic statistics. At the **University of Oviedo** I teach 2 modules for teachers as part of their CLIL/MEILIC Masters program and was the moderator of a weekly [educational forum](#) in Asturias.

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

I have worked as a project manager and consultant for a number of companies. I created financial algorithms and reports for **Fisis Financial**. For **Sun Microsystems (Oracle)**, I created their internationalization website. For the **Ontario Ministry of Education**, I created a statistical scoring system for analysing OAIP test data. For **Interactive Images Technologies**, I wrote a college-level workbook for their simulation package Electronics Workbench. For **ScotiaBank**, I wrote documentation for their trading system. 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 J. White, [\*The House of Words\*](#), Tuttle House, Dublin.
- 2012 J. White, [\*Do the Math: On Growth, Greed, and Strategic Thinking\*](#), Sage, Thousand Oaks, CA.
- 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.

## SELECT ARTICLES

- 2014 [Is Equality Overrated, Too?](#), *CounterPunch*, January 17, 2017.  
– [Hill and Don in Lyrics and in Numbers](#), *CounterPunch*, November 15, 2016.
- 2017 [A Bill of Goods for Xmas](#), *CounterPunch*, December 23, 2015.  
[Where to Bat Your Best Hitter](#), *Fan Graphs*, September 3, 2015.  
[Bilbao: Modern Cathedral Town](#), *Caracolas*, August 26, 2015.  
[Life on the Layaway Plan](#), *CounterPunch*, August 5, 2015.  
[A Simple Recipe for the Future](#), *CounterPunch*, June 26, 2015.  
[Selfie Economics](#), *CounterPunch*, May 15, 2015.  
[Trickle-Down Democracy](#), *CounterPunch*, April 10, 2015.  
[Science in the Age of Opinion](#), *CounterPunch*, March 6, 2015.  
[Lottomania: Mega Millions Madness](#), *CounterPunch*, February 12, 2015.  
[Made in Spain: ArcelorMittal Steel](#), *Caracolas*, February 11, 2015.  
[The Politics of Inequality](#), *CounterPunch*, January 21, 2015.  
[Crisis? What Crisis?](#), *CounterPunch*, December 19.  
[Returning to live in Ireland after 30 years, I was hatched](#), *The Irish Times*, December 9.  
[Terror Games](#), *CounterPunch*, December 3.  
[Inequality Battles](#), *CounterPunch*, November 6.  
[The New Old Capitalism](#), *CounterPunch*, October 9.  
[The Manufactured Need](#), *CounterPunch*, September 2.  
[Renewable Energy in Spain](#), *Caracolas*, August 30.  
[In a Rich Man's World](#), *CounterPunch*, August 1.  
[The World Cup of Oil](#), *CounterPunch*, July 7.  
[Inequality: Fair or foul?](#), *CounterPunch*, June 6.  
[USA RIP?](#), *CounterPunch*, May 7.  
[Art Treasures Galore](#), *Caracolas*, April 27.  
[All the World's a Strategy](#), *CounterPunch*, April 23.  
[The Unequal Divide](#), *CounterPunch*, April 2.  
[Beyond Bubble Economics](#), *CounterPunch*, March 18.  
[Capitalism 2.0](#), *CounterPunch*, February 28.  
[Spanish Wine Now and in a Changing World](#), *Caracolas*, January 6.  
[Rampant Inequality](#), *CounterPunch*, Vol 21, 1, January.
- 2013 [Gordon Brown and Economic Inequality](#), *CounterPunch*, December 20.  
[Music Statistics: Seeing the Business Side to Songs](#), *The World of Statistics*, October 17.  
[Teeter-Totter Averages: How to See Everyday Statistics](#), *The World of Statistics*, August 19.  
[Patterns in Probability: How to See Binomial Statistics](#), *The World of Statistics*, July 8.
- 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.

## 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**

Institute of Physics intervarsity quiz moderator (2009-2013), Radar exhibition for Young Scientist/UCD (2006-2010), School talk program, Transition-year lectures, Iraq-Ireland Teacher's conference lecture, Course applets, UCD Open Day Demonstrator, Young Scientist (2003-2010).

### **EDUCATION**

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