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WORK EXPERIENCE

Assistant Director, Energy Institute, Univ. of Texas at Austin (UT Austin)	2013-present
Research Scientist, Energy Institute, UT Austin	2016-present
Research Assistant, Energy Institute, UT Austin	2013-2016
Lecturer, McCombs School of Business, UT Austin	2011-present
Research Associate, Jackson School of Geosciences, UT Austin	2008-2016
Post-doctoral Fellow, Bureau of Economic Geology, UT Austin	2007-2008
Director of Scientific Research, UniPixel Displays Inc., The Woodlands, TX	2006
Research Scientist, UniPixel Displays Inc., The Woodlands, TX	2004-2006
Graduate Research Assistant, UT Austin	1998-2004
Teaching Assistant, UT Austin	2001, 2003

EDUCATION

2004	PhD (Mechanical Engineering) at University of Texas at Austin, Austin, TX	
1997	B.S. (Mechanical Engineering) at University of Texas at Austin, Austin, TX	High Honors

PUBLICATIONS (BOOKS AND EDITED BOOKS)

- King, Carey W. (2021). *The Economic Superorganism: Beyond the Competing Narratives on Energy, Growth, and Policy*. Springer Nature. ISBN: 978-3-030-50294-2.
- ed. (2014). *Thermal Power Plant Cooling: Context and Engineering*. ASME Press. ISBN: 978-0-7918-6025-0.

PUBLICATIONS (JOURNAL ARTICLES)

- Skiles, Matthew J. et al. (2025). “Effect of Building Sector Retrofits on Natural Gas Demand and Electricity Supply During Winter Weather Emergencies”. In: *Results in Engineering*, p. 108509. ISSN: 2590-1230. DOI: <https://doi.org/10.1016/j.rineng.2025.108509>. URL: <https://www.sciencedirect.com/science/article/pii/S2590123025045530>.
- Daniel, Lea J. et al. (2024). “Computational tool for analysis of vehicle-to-home as home backup solution during power outages”. In: *Energy Reports* 11, pp. 1472–1486. ISSN: 2352-4847. DOI: <https://doi.org/10.1016/j.egy.2024.01.015>. URL: <https://www.sciencedirect.com/science/article/pii/S2352484724000155>.
- Delannoy, Louis et al. (2024). “Emerging consensus on net energy paves the way for improved integrated assessment modeling”. In: *Energy Environ. Sci.* 17 (1), pp. 11–26. DOI: [10.1039/D3EE00772C](https://doi.org/10.1039/D3EE00772C). URL: <http://dx.doi.org/10.1039/D3EE00772C>.
- Jarvis, Andrew and Carey W. King (2024). “Economy-wide rebound and the returns on investment in energy efficiency”. In: *Energy Efficiency* 17.6, p. 60. ISSN: 1570-6478. DOI: [10.1007/s12053-024-10236-7](https://doi.org/10.1007/s12053-024-10236-7). URL: <https://doi.org/10.1007/s12053-024-10236-7>.

- King, Carey W. (2022). “Interdependence of Growth, Structure, Size and Resource Consumption During an Economic Growth Cycle”. In: *Biophysical Economics and Sustainability* 7.1, p. 1. ISSN: 2730-7204. DOI: [10.1007/s41247-021-00093-8](https://doi.org/10.1007/s41247-021-00093-8). URL: <https://doi.org/10.1007/s41247-021-00093-8>.
- Souto, Laiz et al. (2022). “Power system resilience to floods: Modeling, impact assessment, and mid-term mitigation strategies”. In: *International Journal of Electrical Power Energy Systems* 135, p. 107545. ISSN: 0142-0615. DOI: <https://doi.org/10.1016/j.ijepes.2021.107545>. URL: <https://www.sciencedirect.com/science/article/pii/S014206152100781X>.
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- Beal, Colin M and Carey W King (Mar. 2021). “The zero-emissions cost of energy: a policy concept”. In: *Progress in Energy*. DOI: [10.1088/2516-1083/abef1f](https://doi.org/10.1088/2516-1083/abef1f). URL: <https://doi.org/10.1088/2516-1083/abef1f>.
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- King, Carey W., Ashlynn S Stillwell, et al. (2013). “Coherence Between Water and Energy Policies”. In: *Natural Resources Journal* 53, pp. 117–215.

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- Beal, C. M., A. S. Stillwell, et al. (2012). "Energy Return on Investment for Algal Biofuel Production Coupled with Wastewater Treatment." In: *Water Environment Research* 84.9, pp. 692–710.
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- King, Carey W. and Michael E. Webber (June 2008a). "The Water Intensity of the Plugged-In Automotive Economy". In: *Environ. Sci. Technol.* 42.12, pp. 4305–4311. ISSN: 0013-936X. DOI: [10.1021/es0716195](https://doi.org/10.1021/es0716195). URL: <https://doi.org/10.1021/es0716195>.
- (2008b). "Water Intensity of Transportation". In: *Environmental Science & Technology* 42.21. PMID: 19031873, pp. 7866–7872. DOI: [10.1021/es800367m](https://dx.doi.org/10.1021/es800367m). eprint: <http://dx.doi.org/10.1021/es800367m>. URL: <http://dx.doi.org/10.1021/es800367m>.

King, C. W. et al. (2005). “Synthesis of multistable equilibrium linkage systems using an optimization approach”. In: *Structural and Multidisciplinary Optimization* 29.6, pp. 477–487. ISSN: 1615-1488. DOI: [10.1007/s00158-004-0489-6](https://doi.org/10.1007/s00158-004-0489-6). URL: <https://doi.org/10.1007/s00158-004-0489-6>.

King, Carey et al. (Feb. 2005). “Multistable Equilibrium System Design Methodology and Demonstration”. In: *Journal of Mechanical Design* 126.6, pp. 1036–1046. ISSN: 1050-0472. DOI: [10.1115/1.1799631](https://doi.org/10.1115/1.1799631). eprint: https://asmedigitalcollection.asme.org/mechanicaldesign/article-pdf/126/6/1036/5533325/1036_1.pdf. URL: <https://doi.org/10.1115/1.1799631>.

PUBLICATIONS (BOOK CHAPTERS)

Carbajales-Dale, Michael, Emre Eftelioglu, et al. (2020). “The Food-Energy-Water Nexus”. In: ed. by Peter Saundry and Benjamin L. Ruddell. Springer Nature Switzerland AG. Chap. Chapter 12: Questions and Scales, pp. 325–345. URL: https://doi.org/10.1007/978-3-030-29914-9_12.

Carbajales-Dale, Michael and Carey W. King (2020). “The Food-Energy-Water Nexus”. In: ed. by Peter Saundry and Benjamin L. Ruddell. Springer Nature Switzerland AG. Chap. Chapter 13: Metrics, pp. 347–372. URL: https://doi.org/10.1007/978-3-030-29914-9_13.

Sanders, Kelly T. and Carey W. King (2017). “Sustainable Water Management and Technologies: Sustainable Water Management, Volume 1”. In: ed. by Daniel H. Chen. Taylor & Francis/CRC Press. Chap. Chapter 13: Integration of Water and Energy Sustainability. ISBN: 9781482215182.

PUBLICATIONS (NON PEER-REVIEWED ARTICLES & REPORTS)

King, Carey W. (2025). “Answering Questions of Geoeconomics requires the Basics of Energy”. In: *IAEE Energy Forum* 2nd Quarter.

– (Nov. 2024). “Why Energy Efficiency Might Not Reduce Carbon Emissions as Much as People Think”. In: *The Wall Street Journal*. URL: <https://www.wsj.com/science/environment/energy-efficiency-carbon-emissions-climate-struggles-9b10e037>.

King, Carey W., Daniel Greer, et al. (Apr. 2022). *The impact of renewable electricity mixes on residential electricity costs, land-use, and carbon emissions via the Energy Futures Dashboard*. Tech. rep. University of Texas at Austin. eprint: https://energy.utexas.edu/sites/default/files/UTAustin_EIoF%20%28Apr%202022%29%20Demonstration%20of%20Energy%20Futures%20Dashboard%20via%20Increasing%20Renewable%20Penetration.pdf. URL: <https://energy.utexas.edu/policy/eiof/publications>.

King, Carey W., Josh D. Rhodes, et al. (July 2021). *The Timeline and Events of the February 2021 Texas Electric Grid Blackouts*. Tech. rep. University of Texas at Austin. eprint: <https://energy.utexas.edu/sites/default/files/UTAustin%20%282021%29%20EventsFebruary2021TexasBlackout%2020210714.pdf>. URL: <https://energy.utexas.edu/research/ercot-blackout-2021>.

King, Carey W. (Aug. 2017). “Delusions of Grandeur in Building a Low-Carbon Future”. In: *Earth Magazine*, pp. 32–37.

– (2015). “The Rising Cost of Resources and Global Indicators of Change”. In: *American Scientist* 103, p. 6.

King, Carey W. et al. (2008). “Thirst for Energy”. In: *Nature Geoscience* 1, pp. 283–286.

PATENTS

United States Patent 7,817,332. Electromechanical dynamic force profile articulating mechanism, October 19, 2010. King; Carey (Austin, TX). Assignee: Uni-Pixel Displays, Inc. (The Woodlands, TX) Appl. No. 12/050,045.

United States Patent 8,320,036 B2. A Normally Emitting Pixel Architecture for Frustrated Total Internal Reflection Displays. Kevin Derichs, Carey King, Daniel van Ostrand, Berry Cox, Reed Killion. Issued February 26, 2010. Also as patents: CN102187263A, EP2326981A1, US20100079843, WO2010022384A1.

United States Patent 7,564,874 B2. Enhanced bandwidth data encoding method, July 21, 2009. King; Carey (Austin, TX). Assignee: Uni-Pixel Displays, Inc. (The Woodlands, TX) Appl. No. 11/201,220: Filed: August 10, 2005. Also as patents: CA2578496A1, EP1794741A2, EP1794741A4, US20060061559, WO2006033893A2, WO2006033893A3.

United States Patent 7,486,854 B2. Optical microstructures for light extraction and control, February 3, 2009. Van Ostrand; Dan (The Woodlands, TX), King; Carey (Austin, TX), Gobeli; Garth (Albuquerque, NM). Assignee: Uni-Pixel Displays, Inc. (The Woodlands, TX) Appl. No.: 11/338,251 Filed: January 24, 2006. Also as patents: CA2637442A1, CN101371177A, CN101371177B, EP1977277A2, US8218920, US8380026, US20070172171, US20090122387, US20090142020, WO2007120949A2, WO2007120949A3.

United States Patent 7,449,759. Electromechanical dynamic force profile articulating mechanism, November 11, 2008. Selbrede; Martin G. (The Woodlands, TX), King; Carey (Austin, TX), Van Ostrand; Dan (Round Rock, TX). Assignee: Uni-Pixel Displays, Inc. (The Woodlands, TX) Appl. No.: 11/215,514 Filed: August 30, 2005.

ORGANIZATIONS AND MEMBERSHIPS

- Biophysical Economics Institute - Board Member
- International/United States Association for Energy Economics – Member
- United States Society for Ecological Economics/International Society for Ecological Economics - Member
- International Society for Industrial Ecology - Member

HONORS AND AWARDS

- Most Innovative Research, International Society for Biophysical Economics (2018)
- Rosenfeld Plaque for 2010 paper written for Environmental Research Letters
- Best Paper of 2010 ASME Energy Sustainability Conference
- National Science Foundation (NSF) Graduate Fellowship (1998)
- College of Engineering Endowed Presidential Scholarship, University of Texas at Austin (2003)
- Thrust 2000 Fellowship, University of Texas at Austin
- University Fellow, University of Texas at Austin (1998-1999)
- Engineering Graduate Fellowship (College of Engineering, University of Texas at Austin , 1998)
- Bruton Fellowship, University of Texas at Austin (2001, College of Engineering)

- Engineering Scholar (1995-1997, College of Engineering, University of Texas at Austin)
- Cooperative Education Work Program Engineering Scholar, University of Texas at Austin (1997)
- Ernest Cockrell Jr. Scholarship (1996, College of Engineering, University of Texas at Austin)

STUDENTS

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Dr. Colin Beal (ME, Dissertation Committee member, May 2011 graduation)

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Jim Woodward (EER/LBJ, Thesis reader, May 2010 graduation)

CLASSES TAUGHT

Fall 2011 – present

BGS 370/372T: Energy Technology and Policy Business, Government, and Society Department McCombs School of Business The University of Texas at Austin

Fall 2016 – present

LBJ 188S: University of Texas Energy Symposium LBJ School of Public Affairs The University of Texas at Austin

2017:

Short course (6 days) on Energy, Technology, and Policy, China University of Petroleum Beijing, China, April 10-15, 2017.