

BIOGRAPHICAL SKETCH

Jennifer E. Hoffman

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(a) Education & Training

Stanford University	Palo Alto, CA	Applied Physics	Postdoc Fellow, 2003-2004
University of California	Berkeley, CA	Physics	Ph.D., 2003
Harvard University	Cambridge, MA	Physics	B.A. <i>magna cum laude</i> , 1999

(b) Research & Professional Experience

2019 – present Clowes Professor of Science, Harvard University
2015 – present Professor of Physics, Harvard University
2015 – 2016 Canada Excellence Research Chair, University of British Columbia
2010 – 2015 Associate Professor of Physics, Harvard University
2005 – 2010 Assistant Professor of Physics, Harvard University

(c) Publications

Most closely related

1. Harris Pirie, Yu Liu, Anjan Soumyanarayanan, Pengcheng Chen, Yang He, M. M. Yee, P. F. S. Rosa, J. D. Thompson, Dae-Jeong Kim, Z. Fisk, Xiangfeng Wang, Johnpierre Paglione, Dirk K. Morr, M. H. Hamidian, and Jennifer E. Hoffman, Imaging emergent heavy Dirac fermions of a topological Kondo insulator, [Nature Physics](#) **16**, 52 (2020).
2. Christian E. Matt, Harris Pirie, Anjan Soumyanarayanan, Yang He, Michael M. Yee, Pengcheng Chen, Yu Liu, Daniel T. Larson, Wendel S. Paz, J. J. Palacios, M. H. Hamidian, and Jennifer E. Hoffman, Consistency between ARPES and STM measurements on SmB₆, [Physical Review B](#) **101**, 085142 (2020).
3. Tatiana A. Webb, Michael C. Boyer, Yi Yin, Debanjan Chowdhury, Yang He, Takeshi Kondo, T. Takeuchi, H. Ikuta, Eric W. Hudson, Jennifer E. Hoffman, and Mohammad H. Hamidian, Density wave probes cuprate quantum phase transition, [Physical Review X](#) **9**, 021021 (2019).
4. A. Gozar, N. E. Litombe, Jennifer E. Hoffman, and I. Bozovic, Optical nanoscopy of high T_c cuprate nanoconstriction devices patterned by He ion beams, [Nano Letters](#) **17**, 1582 (2017).
5. Dennis Huang, Can-Li Song, Tatiana A. Webb, Shiang Fang, Cui-Zu Chang, Jagadeesh S. Moodera, Efthimios Kaxiras, and Jennifer E. Hoffman, Revealing the empty-state electronic structure of single-unit-cell FeSe/SrTiO₃, [Physical Review Letters](#) **115**, 017002 (2015).

Other significant publications

6. R Comin, A Fano, M. M. Yee, Y Yoshida, H Eisaki, E Schierle, E Weschke, R Sutarto, F He, A Soumyanarayanan, Yang He, M Le Tacon, I. S. Elfimov, Jennifer E. Hoffman, G. A. Sawatzky, B Keimer, and A. Damascelli, Charge order driven by Fermi-arc instability in Bi₂Sr_{2-x}La_xCuO_{6+δ}, [Science](#) **343**, 390 (2014).
7. Ilija Zeljkovic, Jouko Nieminen, Dennis Huang, Tay-rong Chang, Yang He, Horng-tay Jeng, Zhijun Xu, Jinsheng Wen, Genda Gu, Hsin Lin, Robert S. Markiewicz, Arun Bansil, and

- Jennifer E. Hoffman, Nanoscale interplay of strain and doping in a high-temperature superconductor, *Nano Letters* **14**, 6749 (2014).
8. Anjan Soumyanarayanan, Michael M Yee, Yang He, Jasper van Wezel, Dirk J Rahn, Kai Rossnagel, E W Hudson, Michael R Norman, and Jennifer E. Hoffman, Quantum phase transition from triangular to stripe charge order in NbSe₂, *Proc. National Academy of Sciences U.S.A.* **110**, 1623 (2013).
 9. Ilija Zeljkovic, Zhijun Xu, Jinsheng Wen, Genda Gu, Robert S. Markiewicz, and Jennifer E. Hoffman, Imaging the impact of single oxygen atoms on superconducting Bi_{2+y}Sr_{2-y}CaCu₂O_{8+x}, *Science* **337**, 320 (2012).
 10. Jennifer E. Hoffman, K. McElroy, Dung-Hai Lee, K. M. Lang, H. Eisaki, S. Uchida, and J. C. Davis, Imaging quasiparticle interference in Bi₂Sr₂CaCu₂O_{8+δ}, *Science* **297**, 1148 (2002).

(d) Synergistic Activities

1. Regular referee for NSF, DOE, DOD, Nature, Science, APS & AIP journals, etc.
2. Research Science Institute mentor, 2010-2011, 2014, 2017-2020
(Mentored high school students through summer research projects and written & oral presentations for several science fair competitions; 2017 student won \$25,000 college scholarship for his work; 2018 student won \$4,000 college scholarship for her work.)
3. Mentor women graduate students:
 - Monthly meetings with 3 mentees through HGWISE.
 - May 2019, organized a 3-day professional development retreat focused on writing, negotiation and leadership skills for women graduate students & postdocs in Physics and Astronomy at Harvard.
 - October 2019, sponsored a 3-day “Grad School Application 101” workshop for undergraduate women of color.
4. Dedicated teacher and mentor, evidenced by numerous awards:
 - Spark Award, “for inspiring the next generation of women in science”, Harvard, 2009
 - Fannie Cox Award, given annually to two faculty members in recognition of “outstanding teaching in introductory science courses.” Harvard, 2012 ([link](#))
 - Roslyn Abramson Award, given annually to two faculty members in recognition of “excellence and sensitivity in teaching undergraduates.” Harvard, 2012 ([link](#))
 - Harvard Graduate Women in Science & Engineering (HGWISE), Mentor of the Year Award, 2018 ([link](#))
5. Advocacy for women & URMs in science:
 - Heising Simons Foundation, Physics and Astronomy Leadership Council, 2016 - present
 - Chair of Harvard Physics Department Mentorship Committee, 2020
 - Chair of Harvard Physics Department Equity & Inclusion Committee, 2018 – 2019
 - Chair of Harvard Physics Department Graduate Admissions Committee, 2017 - 2019