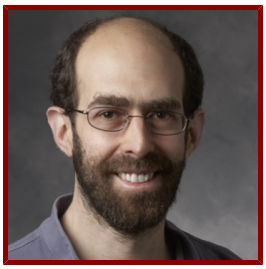
Stanford



David Goldhaber-Gordon

TG Wijaya Professor of Physics and Professor, by courtesy, of Applied Physics

CONTACT INFORMATION

- **Administrative Contact**

  Naomi Tudor

  Email ntudor@stanford.edu

Bio

BIO

David earned his AB in Physics and AM in History of Science from Harvard in 1994, and his Ph.D. in Physics from the Massachusetts Institute of Technology in 1999, as a Hertz Fellow. During his Ph.D., David made the first demonstration of the Kondo effect in a semiconductor nanostructure. The Kondo effect is the interaction of a magnetic impurity atom with a surrounding metal host, and David's contribution enabled study of this classic system in a new and more tunable context, spurring a world-wide renaissance in this area. Also during this period, with colleagues at the MITRE Corporation he published an influential article examining the implications of novel nanoelectronic devices for computing. Following his Ph.D. he spent two years as a Junior Fellow in the Harvard Society of Fellows, then joined the faculty at Stanford University.

David has received a number of distinctions. In 2002, he received the inaugural George E. Valley Prize of the American Physical Society. This prize is awarded every 2-3 years to one early-career individual, for his or her outstanding contribution to the knowledge of physics. Also in 2002, he received the University of Illinois's McMillan Award in condensed matter physics, the premier recognition for a young condensed matter physicist. More recently he received the 2006 Award for Initiatives in Research from the National Academy of Sciences (one awarded per year), and a Packard Fellowship. He has also received young investigator awards from the Navy, Air Force, Sloan Foundation, Research Corporation, National Science Foundation, and Hellman Faculty Scholars program.

ACADEMIC APPOINTMENTS

- Professor, Physics
- Professor (By courtesy), Applied Physics
- Principal Investigator, Stanford Institute for Materials and Energy Sciences

ADMINISTRATIVE APPOINTMENTS

- Senator, Faculty Senate, Stanford University, (2016-2020)
- Chair, Faculty Senate Committee on Graduate Studies, Stanford University, (2016-2018)
- Professor of Physics with Tenure, Experimental Condensed Matter, Stanford University, (2013- present)
- Director, Center for Probing the Nanoscale, an NSF Nanoscale Science and engineering Center, Stanford University, (2011-2014)
- Associate Professor of Physics with Tenure, Experimental Condensed Matter, Stanford University, (2008-2013)

- Co-founder, Center for Probing the Nanoscale, Stanford University, (2003- present)
- Deputy Director, Center for Probing the Nanoscale, Stanford University, (2003-2011)
- Assistant Professor of Physics, Experimental Condensed Matter, Stanford University, (2001-2008)
- Member of Technical Staff, The MITRE Corporation, (2000-2001)
- Junior Fellow, Harvard Society of Fellows, Harvard University, Cambridge, MA, (1999-2001)

HONORS AND AWARDS

- Fellow, American Physical Society (2018)
- Award for Excellence and Achievement, Center for Excellence in Education (2013)
- Weston Visiting Professorship, Weizmann Institute (2010 - 2011)
- Air Force Presidential (PECASE) Awardee, United States Air Force (2003 - 2007)
- Young Investigator Award, Office of Naval Research (2001 - 2004)
- Inaugural speaker for young investigator seminar, AFOSR/ONR (2007)
- Research Innovation Award, Research Corporation (2004 - 2006)
- Best paper by a young author, International Conference on Physics of Semiconductors (ICPS) (1998)
- Best Paper, Review of nanoelectronic computing, MITRE Corp (1997)
- Martin Deutsch Award, MIT (1997)
- MIT Karl Taylor Compton PhD Fellow, MIT (1994 - 1996)
- Hellman Faculty Scholar, Stanford University (2008)
- David and Lucille Packard Fellowship, Packard Foundation (2004-2009)
- Sloan Fellowship, Alfred P. Sloan Foundation (2003-2005)
- Hertz PhD Fellow, Fannie and John Hertz Foundation (1994-1999)
- Award for Initiatives in Research, National Academy of Sciences (2006)
- Inaugural recipient of the George E. Valley Prize, American Physical Society (2002)
- William McMillan Award, University of Illinois Urbana-Champaign, Department of Physics (2002)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Member, Selection Committee, George E. Valley Prize, American Physical Society (2004 - 2004)
- Member, Selection Committee, Apker Award, American Physical Society (2006 - 2008)
- Member, Selection Committee, William McMillan Award, University of Illinois (2007 - 2010)
- Member, Stanford University Nanofabrication Facility Faculty Advisory Board (2005 - present)
- Member, Stanford University Engineering-Physics Faculty Group (2011 - present)
- Member, Stanford University Nanofacilities Committee (2008 - present)
- Director, Board of Directors, South Peninsula Hebrew Day School (2009 - 2015)
- Member, University Graduate Study Committee, Stanford University (2014 - present)
- Chair, Graduate Study Committee, Physics Department, Stanford University (2008 - 2010)
- Chair, Graduate Study Committee, Physics Department, Stanford University (2011 - 2013)
- Chair, Condensed Matter Experiment Faculty Search Committee, Physics Department, Stanford University (2011 - present)
- Member, Long-range Planning Committee, Physics Department, Stanford University (2014 - present)
- Member, Undergraduate Study Committee, Stanford University (2008 - present)

- Member, Atomic, Molecular, and Optical Physics Faculty Search Committee, Stanford Univesity (2002 - 2008)
- Member, Condensed Matter Theory Faculty Search Committee, Stanford University (2007 - 2009)
- Member, Committee to Revamp the Freshmen Labs, Stanford University (2007 - 2008)
- Member, Stanford University Nanofabrication Facility Executive Committee (2013 - present)

PROFESSIONAL EDUCATION

- PhD, Massachusetts Institute of Technology , Physics (1999)
- AM, Harvard University, Cambridge, MA , History of Science (1994)
- AB, Harvard University, Cambridge, MA , Physics (1994)

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

How do electrons organize themselves on the nanoscale?

We know that electrons are charged particles, and hence repel each other; yet in common metals like copper billions of electrons have plenty of room to maneuver and seem to move independently, taking no notice of each other. Professor Goldhaber-Gordon studies how electrons behave when they are instead confined to tiny structures, such as wires only tens of atoms wide. When constrained this way, electrons cannot easily avoid each other, and interactions strongly affect their organization and flow. The Goldhaber-Gordon group uses advanced fabrication techniques to confine electrons to semiconductor nanostructures, to extend our understanding of quantum mechanics to interacting particles, and to provide the basic science that will shape possible designs for future transistors and energy conversion technologies. The Goldhaber-Gordon group makes measurements using cryogenics, precision electrical measurements, and novel scanning probe techniques that allow direct spatial mapping of electron organization and flow. For some of their measurements of exotic quantum states, they cool electrons to a fiftieth of a degree above absolute zero, the world record for electrons in semiconductor nanostructures.

Teaching

COURSES

2025-26

- Mechanics: PHYSICS 41 (Aut)

2024-25

- Advanced Physics Laboratory: Project: PHYSICS 108 (Spr)

2023-24

- Advanced Physics Laboratory: Project: PHYSICS 108 (Spr)

2022-23

- Electricity and Magnetism Using Special Relativity and Vector Calculus: PHYSICS 81 (Spr)
- Electrons in Nanostructures: PHYSICS 275 (Win)

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Amal Mathew

Postdoctoral Faculty Sponsor

Jordan McCourt, Isaac Zheng

Doctoral Dissertation Advisor (AC)

Ben Alexander, Elijah Courtney, Chaitrali Duse, Sandesh Kalantre, Karna Morey, Bingcheng Suo, Steven Tran

Doctoral Dissertation Co-Advisor (AC)

Albert Nazeeri

Doctoral (Program)

Sultan Malik

Publications

PUBLICATIONS

- **Quantitative determination of twist angle and strain in Van der Waals moiré superlattices** *APPLIED PHYSICS LETTERS*
  Tran, S. J., Uslu, J., Pendharkar, M., Finney, J., Sharpe, A. L., Hocking, M., Bittner, N. J., Watanabe, K., Taniguchi, T., Kastner, M. A., Mannix, A. J., Goldhaber-Gordon, D.
  2024; 125 (11)

- **Chemically Tailored Growth of 2D Semiconductors via Hybrid Metal-Organic Chemical Vapor Deposition.** *ACS nano*
  Zhang, Z., Hoang, L., Hocking, M., Peng, Z., Hu, J., Zaborski, G., Reddy, P. D., Dollard, J., Goldhaber-Gordon, D., Heinz, T. F., Pop, E., Mannix, A. J.
  2024

- **Fractional AC Josephson effect in a topological insulator proximitized by a self-formed superconductor** *PHYSICAL REVIEW B*
  Rosen, I. T., Trimble, C. J., Andersen, M. P., Mikheev, E., Li, Y., Liu, Y., Tai, L., Zhang, P., Wang, K. L., Cui, Y., Kastner, M. A., Williams, J. R., Goldhaber-Gordon, et al
  2024; 110 (6)

- **Thermal relaxation of strain and twist in ferroelectric hexagonal boron nitride moiré interfaces** *JOURNAL OF APPLIED PHYSICS*
  Hocking, M., Henzinger, C. E., Tran, S. J., Pendharkar, M., Bittner, N. J., Watanabe, K., Taniguchi, T., Goldhaber-Gordon, D., Mannix, A. J.
  2024; 136 (2)

- **Torsional force microscopy of van der Waals moirés and atomic lattices.** *Proceedings of the National Academy of Sciences of the United States of America*
  Pendharkar, M., Tran, S. J., Zaborski, G., Finney, J., Sharpe, A. L., Kamat, R. V., Kalantre, S. S., Hocking, M., Bittner, N. J., Watanabe, K., Taniguchi, T., Pittenger, B., Newcomb, et al
  2024; 121 (10): e2314083121

- **Universal Conductance Fluctuations in a MnBi2Te4 Thin Film.** *Nano letters*
  Andersen, M. P., Mikheev, E., Rosen, I. T., Tai, L., Zhang, P., Wang, K. L., Kastner, M. A., Goldhaber-Gordon, D.
  2023

- **Unusual magnetotransport in twisted bilayer graphene from strain-induced open Fermi surfaces.** *Proceedings of the National Academy of Sciences of the United States of America*
  Wang, X., Finney, J., Sharpe, A. L., Rodenbach, L. K., Hsueh, C. L., Watanabe, K., Taniguchi, T., Kastner, M. A., Vafek, O., Goldhaber-Gordon, D.
  2023; 120 (34): e2307151120

- **Magnetic Field-Stabilized Wigner Crystal States in a Graphene Moiré Superlattice.** *Nano letters*
  Chen, G., Zhang, Y. H., Sharpe, A., Zhang, Z., Wang, S., Jiang, L., Lyu, B., Li, H., Watanabe, K., Taniguchi, T., Shi, Z., Goldhaber-Gordon, D., Zhang, et al
  2023

- **Low-damage electron beam lithography for nanostructures on Bi2Se3-class topological insulator thin films** *JOURNAL OF APPLIED PHYSICS*
  Andersen, M. P., Rodenbach, L. K., Rosen, I. T., Lin, S. C., Pan, L., Zhang, P., Tai, L., Wang, K. L., Kastner, M. A., Goldhaber-Gordon, D.
  2023; 133 (24)

- **A clean ballistic quantum point contact in strontium titanate** *NATURE ELECTRONICS*

Mikheev, E., Rosen, I. T., Kombe, J., Damanet, F., Kastner, M. A., Goldhaber-Gordon, D.
2023

- **Probing single electron scattering through a non-Fermi-liquid charge-Kondo device** *PHYSICAL REVIEW B*
  Sela, E., Goldhaber-Gordon, D., Anthore, A., Pierre, F., Oreg, Y.
  2023; 107 (16)
- **Z_{3} Parafermion in the Double Charge Kondo Model.** *Physical review letters*
  Karki, D. B., Boulat, E., Pouse, W., Goldhaber-Gordon, D., Mitchell, A. K., Mora, C.
  2023; 130 (14): 146201
- **Visualizing the atomic-scale origin of metallic behavior in Kondo insulators.** *Science (New York, N.Y.)*
  Pirie, H., Mascot, E., Matt, C. E., Liu, Y., Chen, P., Hamidian, M. H., Saha, S., Wang, X., Paglione, J., Luke, G., Goldhaber-Gordon, D., Hirjibehedin, C. F., Davis, et al
  2023; 379 (6638): 1214-1218
- **Quantum simulation of an exotic quantum critical point in a two-site charge Kondo circuit** *NATURE PHYSICS*
  Pouse, W., Peeters, L., Hsueh, C. L., Gennser, U., Cavanna, A., Kastner, M. A., Mitchell, A. K., Goldhaber-Gordon, D.
  2023
- **Feedback lock-in: A versatile multi-terminal measurement system for electrical transport devices** *REVIEW OF SCIENTIFIC INSTRUMENTS*
  Barnard, A. W., Mikheev, E., Finney, J., Hiller, H. S., Goldhaber-Gordon, D.
  2023; 94 (1)
- **Feedback lock-in: A versatile multi-terminal measurement system for electrical transport devices.** *The Review of scientific instruments*
  Barnard, A. W., Mikheev, E., Finney, J., Hiller, H. S., Goldhaber-Gordon, D.
  2023; 94 (1): 013902
- **Measured Potential Profile in a Quantum Anomalous Hall System Suggests Bulk-Dominated Current Flow.** *Physical review letters*
  Rosen, I. T., Andersen, M. P., Rodenbach, L. K., Tai, L., Zhang, P., Wang, K. L., Kastner, M. A., Goldhaber-Gordon, D.
  2022; 129 (24): 246602
- **Metrological Assessment of Quantum Anomalous Hall Properties** *PHYSICAL REVIEW APPLIED*
  Rodenbach, L. K., Panna, A. R., Payagala, S. U., Rosen, I. T., Andersen, M. P., Zhang, P., Tai, L., Wang, K. L., Jarrett, D. G., Elmquist, R. E., Newell, D. B., Goldhaber-Gordon, D., Rigosi, et al
  2022; 18 (3)
- **Ionic Liquid Gating of SrTiO3 Lamellas Fabricated with a Focused Ion Beam.** *Nano letters*
  Mikheev, E., Zimmerling, T., Estry, A., Moll, P. J., Goldhaber-Gordon, D.
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- **Nanoscale Electronic Transparency of Wafer-Scale Hexagonal Boron Nitride.** *Nano letters*
  Zerger, C. Z., Rodenbach, L. K., Chen, Y., Safvati, B., Brubaker, M. Z., Tran, S., Chen, T., Li, M., Li, L., Goldhaber-Gordon, D., Manoharan, H. C.
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- **Directional ballistic transport in the two-dimensional metal PdCoO2** *NATURE PHYSICS*
  Bachmann, M. D., Sharpe, A. L., Baker, G., Barnard, A. W., Putzke, C., Scaffidi, T., Nandi, N., McGuinness, P. H., Zhakina, E., Moravec, M., Khim, S., Konig, M., Goldhaber-Gordon, et al
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- **Directional ballistic transport in the two-dimensional metal PdCoO2.** *Nature physics*
  Bachmann, M. D., Sharpe, A. L., Baker, G., Barnard, A. W., Putzke, C., Scaffidi, T., Nandi, N., McGuinness, P. H., Zhakina, E., Moravec, M., Khim, S., König, M., Goldhaber-Gordon, et al
  2022; 18 (7): 819-824
- **Clean quantum point contacts in an InAs quantum well grown on a lattice-mismatched InP substrate** *PHYSICAL REVIEW B*
  Hsueh, C. L., Sriram, P., Wang, T., Thomas, C., Gardner, G., Kastner, M. A., Manfra, M. J., Goldhaber-Gordon, D.
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- **Unusual magnetotransport in twisted bilayer graphene.** *Proceedings of the National Academy of Sciences of the United States of America*

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- **Tunable Orbital Ferromagnetism at Noninteger Filling of a Moire Superlattice.** *Nano letters*
  Chen, G., Sharpe, A. L., Fox, E. J., Wang, S., Lyu, B., Jiang, L., Li, H., Watanabe, K., Taniguchi, T., Crommie, M. F., Kastner, M. A., Shi, Z., Goldhaber-Gordon, et al
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- **Application-driven synthesis and characterization of hexagonal boron nitride deposited on metals and carbon nanotubes** *2D MATERIALS*
  Chen, V., Shin, Y., Mikheev, E., Lin, Q., Martis, J., Zhang, Z., Chatterjee, S., Majumdar, A., Wong, H., Goldhaber-Gordon, D., Pop, E.
  2021; 8 (4)
- **Quantized critical supercurrent in SrTiO3-based quantum point contacts.** *Science advances*
  Mikheev, E., Rosen, I. T., Goldhaber-Gordon, D.
  2021; 7 (40): eabi6520
- **Evidence of Orbital Ferromagnetism in Twisted Bilayer Graphene Aligned to Hexagonal Boron Nitride.** *Nano letters*
  Sharpe, A. L., Fox, E. J., Barnard, A. W., Finney, J., Watanabe, K., Taniguchi, T., Kastner, M. A., Goldhaber-Gordon, D.
  2021
- **Tunable correlated Chern insulator and ferromagnetism in a moire superlattice (vol 579, pg 56, 2020)** *NATURE*
  Chen, G., Sharpe, A. L., Fox, E. J., Zhang, Y., Wang, S., Jiang, L., Lyu, B., Li, H., Watanabe, K., Taniguchi, T., Shi, Z., Senthil, T., Goldhaber-Gordon, et al
  2020: E3
- **Giant orbital magnetoelectric effect and current-induced magnetization switching in twisted bilayer graphene.** *Nature communications*
  He, W. Y., Goldhaber-Gordon, D. n., Law, K. T.
  2020; 11 (1): 1650
- **Super-geometric electron focusing on the hexagonal Fermi surface of PdCoO2.** *Nature communications*
  Bachmann, M. D., Sharpe, A. L., Barnard, A. W., Putzke, C., Konig, M., Khim, S., Goldhaber-Gordon, D., Mackenzie, A. P., Moll, P. J.
  2019; 10 (1): 5081
- **Signatures of tunable superconductivity in a trilayer graphene moire superlattice.** *Nature*
  Chen, G., Sharpe, A. L., Gallagher, P., Rosen, I. T., Fox, E. J., Jiang, L., Lyu, B., Li, H., Watanabe, K., Taniguchi, T., Jung, J., Shi, Z., Goldhaber-Gordon, et al
  2019
- **Visualization of an axion insulating state at the transition between 2 chiral quantum anomalous Hall states.** *Proceedings of the National Academy of Sciences of the United States of America*
  Allen, M., Cui, Y., Yue Ma, E., Mogi, M., Kawamura, M., Fulga, I. C., Goldhaber-Gordon, D., Tokura, Y., Shen, Z.
  2019
- **Quantum-Hall to Insulator Transition in Ultra-Low-Carrier-Density Topological Insulator Films and a Hidden Phase of the Zeroth Landau Level.** *Advanced materials (Deerfield Beach, Fla.)*
  Salehi, M., Shapourian, H., Rosen, I. T., Han, M., Moon, J., Shibayev, P., Jain, D., Goldhaber-Gordon, D., Oh, S.
  2019: e1901091
- **Significant Phonon Drag Enables High Power Factor in the AlGaN/GaN Two-Dimensional Electron Gas.** *Nano letters*
  Yalamarthy, A. S., Munoz Rojo, M., Bruefach, A., Boone, D., Dowling, K. M., Satterthwaite, P. F., Goldhaber-Gordon, D., Pop, E., Senesky, D. G.
  2019
- **Absence of strong localization at low conductivity in the topological surface state of low-disorder Sb2Te3** *PHYSICAL REVIEW B*
  Rosen, I. T., Yudhistira, I., Sharma, G., Salehi, M., Kastner, M. A., Oh, S., Adam, S., Goldhaber-Gordon, D.
  2019; 99 (20)
- **Emergent ferromagnetism near three-quarters filling in twisted bilayer graphene.** *Science (New York, N.Y.)*
  Sharpe, A. L., Fox, E. J., Barnard, A. W., Finney, J. n., Watanabe, K. n., Taniguchi, T. n., Kastner, M. A., Goldhaber-Gordon, D. n.
  2019

- **Optical Imaging and Spectroscopic Characterization of Self-Assembled Environmental Adsorbates on Graphene** *NANO LETTERS*
  Gallagher, P., Li, Y., Watanabe, K., Taniguchi, T., Heinz, T. F., Goldhaber-Gordon, D.
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  Lanza, M., Tang, K., Meng, A. C., Hui, F., Shi, Y., Han, T., Petach, T., Hitzman, C., Koh, A., Goldhaber-Gordon, D., McIntyre, P. C., IEEE
  IEEE.2018
- **Chiral transport along magnetic domain walls in the quantum anomalous Hall effect** *NPJ QUANTUM MATERIALS*
  Rosen, I. T., Fox, E. J., Kou, X., Pan, L., Wang, K. L., Goldhaber-Gordon, D.
  2017; 2
- **Zero-field edge plasmons in a magnetic topological insulator** *NATURE COMMUNICATIONS*
  Mahoney, A. C., Colless, J. I., Peeters, L., Pauka, S. J., Fox, E. J., Kou, X., Pan, L., Wang, K. L., Goldhaber-Gordon, D., Reilly, D. J.
  2017; 8
- **Zero-field edge plasmons in a magnetic topological insulator.** *Nature communications*
  Mahoney, A. C., Colless, J. I., Peeters, L., Pauka, S. J., Fox, E. J., Kou, X., Pan, L., Wang, K. L., Goldhaber-Gordon, D., Reilly, D. J.
  2017; 8 (1): 1836
- **Disorder from the Bulk Ionic Liquid in Electric Double Layer Transistors.** *ACS nano*
  Petach, T. A., Reich, K. V., Zhang, X., Watanabe, K., Taniguchi, T., Shklovskii, B. I., Goldhaber-Gordon, D.
  2017; 11 (8): 8395-8400
- **Distinguishing Oxygen Vacancy Electromigration and Conductive Filament Formation in TiO2 Resistance Switching Using Liquid Electrolyte Contacts.** *Nano letters*
  Tang, K., Meng, A. C., Hui, F., Shi, Y., Petach, T., Hitzman, C., Koh, A. L., Goldhaber-Gordon, D., Lanza, M., McIntyre, P. C.
  2017; 17 (7): 4390-4399
- **Absorptive pinhole collimators for ballistic Dirac fermions in graphene** *NATURE COMMUNICATIONS*
  Barnard, A. W., Hughes, A., Sharpe, A. L., Watanabe, K., Taniguchi, T., Goldhaber-Gordon, D.
  2017; 8
- **Crystal truncation rods from miscut surfaces** *PHYSICAL REVIEW B*
  Petach, T. A., Mehta, A., Toney, M. F., Goldhaber-Gordon, D.
  2017; 95 (18)
- **Temperature-dependent optical properties of titanium nitride** *APPLIED PHYSICS LETTERS*
  Briggs, J. A., Naik, G. V., Zhao, Y., Petach, T. A., Sahasrabuddhe, K., Goldhaber-Gordon, D., Melosh, N. A., Dionne, J. A.
  2017; 110 (10)
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  Diankov, G., Liang, C., Amet, F., Gallagher, P., Lee, M., Bestwick, A. J., Tharratt, K., Coniglio, W., Jaroszynski, J., Watanabe, K., Taniguchi, T., Goldhaber-Gordon, D.
  2016; 7
- **Unconventional Correlation between Quantum Hall Transport Quantization and Bulk State Filling in Gated Graphene Devices** *PHYSICAL REVIEW LETTERS*
  Cui, Y., Wen, B., Ma, E. Y., Diankov, G., Han, Z., Amet, F., Taniguchi, T., Watanabe, K., Goldhaber-Gordon, D., Dean, C. R., Shen, Z.
  2016; 117 (18)
- **Ballistic miniband conduction in a graphene superlattice.** *Science*
  Lee, M., Wallbank, J. R., Gallagher, P., Watanabe, K., Taniguchi, T., Fal'ko, V. I., Goldhaber-Gordon, D.
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- **Cotunneling Drag Effect in Coulomb-Coupled Quantum Dots.** *Physical review letters*
  Keller, A. J., Lim, J. S., Sánchez, D., López, R., Amasha, S., Katine, J. A., Shtrikman, H., Goldhaber-Gordon, D.
  2016; 117 (6): 066602-?
- **Voltage-Controlled Interfacial Layering in an Ionic Liquid on SrTiO3** *ACS NANO*

Petach, T. A., Mehta, A., Marks, R., Johnson, B., Toney, M. F., Goldhaber-Gordon, D.
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  Gallagher, P., Lee, M., Amet, F., Maksymovych, P., Wang, J., Wang, S., Lu, X., Zhang, G., Watanabe, K., Taniguchi, T., Goldhaber-Gordon, D.
  2016; 7
- **Fully CMOS-compatible titanium nitride nanoantennas** *APPLIED PHYSICS LETTERS*
  Briggs, J. A., Naik, G. V., Petach, T. A., Baum, B. K., Goldhaber-Gordon, D., Dionne, J. A.
  2016; 108 (5)
- **Resonant magneto-optic Kerr effect in the magnetic topological insulator Cr:(Sb-x,Bi1-x)(2)Te-3** *PHYSICAL REVIEW B*
  Patankar, S., Hinton, J. P., Griesmar, J., Orenstein, J., Dodge, J. S., Kou, X., Pan, L., Wang, K. L., Bestwick, A. J., Fox, E. J., Goldhaber-Gordon, D., Wang, J., Zhang, et al
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- **Universal Fermi liquid crossover and quantum criticality in a mesoscopic system.** *Nature*
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  2015; 526 (7572): 237-240
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  Peeters, L., Keller, A. J., Umansky, V., Mahalu, D., Goldhaber-Gordon, D.
  2015; 33 (5)
- **Self-sensing cantilevers with integrated conductive coaxial tips for high-resolution electrical scanning probe metrology** *JOURNAL OF APPLIED PHYSICS*
  Haemmerli, A. J., Harjee, N., Koenig, M., Garcia, A. G., Goldhaber-Gordon, D., Pruitt, B. L.
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- **Precise Quantization of the Anomalous Hall Effect near Zero Magnetic Field** *PHYSICAL REVIEW LETTERS*
  Bestwick, A. J., Fox, E. J., Kou, X., Pan, L., Wang, K. L., Goldhaber-Gordon, D.
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- **Unexpected edge conduction in mercury telluride quantum wells under broken time-reversal symmetry** *NATURE COMMUNICATIONS*
  Ma, E. Y., Calvo, M. R., Wang, J., Lian, B., Muehlbauer, M., Bruene, C., Cui, Y., Lai, K., Kundhikanjana, W., Yang, Y., Baenninger, M., Koenig, M., Ames, et al
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  2015; 6: 5838-?
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