

# Lieber Research Group, Chemistry & Chemical Biology Dept., Harvard University

## Charles M. Lieber



### Principal Investigator

Email

617-496-3169

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Charles M. Lieber

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Group News

Charles M. Lieber was born in Philadelphia, Pennsylvania in 1959. He attended Franklin and Marshall College for his undergraduate education and graduated with honors in Chemistry. After doctoral studies at Stanford University and postdoctoral research at the California Institute of Technology, he moved to the East Coast in 1987 to assume the position of Assistant Professor at Columbia University. Here Lieber embarked upon a new research program addressing the synthesis and properties of low-dimensional materials. He moved to Harvard University in 1991 and holds a joint appointment in the Department of Chemistry and Chemical Biology and the Harvard John A. Paulson School of Engineering and Applied Sciences, as the Joshua and Beth Friedman University Professor. He also serves as the Chair of the Department of Chemistry and Chemical Biology. Lieber has been a pioneer in nanoscience and nanotechnology where he has originated new paradigms that have defined the rational growth, characterization, and original applications of functional nanometer diameter wires and heterostructures. Lieber has provided seminal concepts central to the bottom-up paradigm of nanoscience, and has been a leader in defining directions and demonstrating applications of nanomaterials in areas ranging from electronics, computing, and photonics, as well as **pioneering the interface between electronics with biology and medicine, including his current focus in brain science.**

[Update: Indicted on Jan. 28, 2020 by the U.S. Dept. of Justice on multiple counts of aiding the People's Republic of China.]

<https://www.justice.gov/opa/pr/harvard-university-professor-and-two-chinese-nationals-charged-three-separate-china-related>

Lieber's work has been recognized by a number of awards, including the Welch Award in Chemistry (2019); John Gamble Kirkwood Award, Yale University (2018); NIH Director's Pioneer Award (2017 and 2008); MRS Von Hippel Award (2016); Remsen Award (2016); Nano Research Award, Tsinghua University Press/Springer (2013); IEEE Nanotechnology Pioneer Award (2013); Willard Gibbs Medal (2013); Wolf Prize in Chemistry (2012); Fred Kavli Distinguished Lectureship in Nanoscience (2010); Inorganic Nanoscience Award of the ACS Division of Inorganic Chemistry (2009); Einstein Award, Chinese Academy of Sciences (2008); NBIC Research Excellence Award, University of Pennsylvania (2007); Nanotech Briefs Nano 50 Award (2005); ACS Award in the Chemistry of Materials (2004); World Technology Award in Materials (2004 and 2003); Scientific American 50 Award in Nanotechnology and Molecular Electronics (2003); New York Intellectual Property Law Association Inventor of the Year (2003); APS McGroddy Prize for New Materials (2003); Harrison Howe Award, University of Rochester (2002); MRS Medal (2002); Feynman Prize in Nanotechnology (2001); NSF Creativity Award (1996); and ACS Award in Pure Chemistry (1992).

Lieber is an elected member of the National Academy of Sciences, the American Academy of Arts and Sciences, the National Academy of Medicine, and the National Academy of Engineering, Fellow of the Materials Research Society and American Chemical Society (Inaugural Class), Honorary Fellow of the Chinese Chemical Society, and member of the American Physical Society, Institute of Electrical and Electronics Engineers, International Society for Optical Engineering and American Association for the Advancement of Science. Lieber is Co-Editor of Nano Letters, and serves on the Editorial and Advisory Boards of a large number of science and technology journals.

Lieber has published over 400 papers in peer-reviewed journals and is the principal inventor on more than 50 patents. In his spare time, Lieber has been active in commercializing nanotechnology, and founded the nanotechnology company Nanosys, Inc. in 2001 and the new nanosensor company Vista Therapeutics in 2007.

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## Former Group Members

NAME	CURRENT POSITION	UNIVERSITY/COMPANY
Agarwal, Ritesh	Professor	University of Pennsylvania Department of Materials Science & Engineering
Ashby, Paul	Staff Scientist, Imaging and Manipulation of Nanostructures	Lawrence Berkeley National Laboratory Molecular Foundry
Barrelet, Carl	Head of Data Science	KPMG Canada
Bolle, Cristian	Distinguished MTS	Nokia Bell Labs
Cahoon, James	Associate Professor	The University of North Carolina at Chapel Hill Department of Chemistry
Cao, Anyuan	Professor	Peking University Department of Advanced Materials and Nanotechnology
Carnahan, Edmund	Research Fellow	The Dow Chemical Company
Casanova, Didier	Associate Principal	McKinsey & Company
Chen, Chia-Chun (Jay)	Professor	National Taiwan Normal University Department of Chemistry
Chen, Liwei	Professor	Chinese Academy of Sciences Suzhou Institute of Nano-Tech and Nano-Bionics
Cheung, Barry Chin Li	Associate Professor	University of Nebraska, Lincoln Department of Chemistry, Nebraska Center for Materials and Nanoscience
Choe, Hwan Sung	Process Engineer 4	Lam Research

Carnegie Mellon University

Charles M. Lieber

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Tzahi Department of Biomedical Engineering

Cui, Yi Professor Stanford University  
Department of Materials Science & Engineering

Dai, Hongjie Professor Stanford University  
Department of Chemistry

Dai, Xiaochuan Postdoctoral Fellow Tufts University  
Department of Biomedical Engineering

Day, Robert Postdoctoral Fellow Massachusetts Institute of Technology  
Department of Chemistry

Dong, Yajie Assistant Professor University of Central Florida  
NanoScience Technology Center

Duan, Xiangfeng Professor University of California, Los Angeles  
Department of Chemistry & Biochemistry

Duan, Xiaojie Associate Professor Peking University  
Department of Biomedical Engineering

Fang, Ying Professor National Center for Nanoscience and Technology,  
China

Friedman, Robin Director of Technology View, Inc

Frisbie, C. Daniel Professor University of Minnesota  
Department of Chemical Engineering & Materials Science

Fu, Tian-Ming Postdoctoral Associate HHMI Janelia Research Campus

Gao, Ning

Gao, Ruixuan Postdoctoral Associate Massachusetts Institute of Technology  
Media Lab and McGovern Institute; Departments of Biological Engineering and Brain and Cognitive Sciences

Gao, Xuan Professor Case Western Reserve University  
Department of Physics

Gong, Jian Ru Professor National Center for Nanoscience and Technology,  
China

## Physical Chemistry

Gradecak, Silvija	Professor	Massachusetts Institute of Technology Department of Materials Science & Engineering
Greytak, Andrew	Associate Professor	University of South Carolina Department of Chemistry and Biochemistry
Gudiksen, Mark	Co-founder and Partner	Circularis Partners LLC
Hafner, Jason	Professor	Rice University Department of Physics & Astronomy/Department of Chemistry
Hahm, Jong-in	Professor	Georgetown University Department of Chemistry
Hata, Kenji	Director	National Institute of Advanced Industrial Science & Technology (AIST), CNT-Application Research Center
Hayden, Oliver	Professor	Technical University of Munich Electrical and Computer Engineering
Hong, Guosong	Assistant Professor	Stanford University Department of Materials Science & Engineering
Hu, Jiangtao	Marketing Director	Lam Research
Hu, Jinsong	Professor	Key Laboratory of Molecular Nanostructure and Nanotechnology Institute of Chemistry, Chinese Academy of Sciences
Hu, Yongjie	Assistant Professor	University of California, Los Angeles Department of Mechanical & Aerospace Engineering
Huang, Yu	Professor	University of California, Los Angeles Department of Materials Science & Engineering
Javey, Ali	Professor	University of California, Berkeley Department of Electrical Engineering & Computer Science
Jiang, Xiaocheng	Assistant Professor	Tufts University Department of Biomedical Engineering

Jin, Song	Professor	University of Wisconsin-Madison Department of Chemistry
Joselevich, Ernesto	Professor	Weizmann Institute of Science, Israel Department of Materials and Interfaces
Kelty, Stephen	Professor	Seton Hall University Department of Chemistry & Biochemistry
Kempa, Thomas	Assistant Professor	Johns Hopkins University Department of Chemistry
Kim, Philip	Professor	Harvard University Department of Physics
Kim, Sun Kyung	Associate Professor	Kyung Hee University Department of Applied Physics
Lauhon, Lincoln	Professor; Associate Chair	Northwestern University Department of Materials Science & Engineering
Lee, Jae-Hyun	Assistant Professor	Yonsei University IBS Center for Nanomedicine
Li, Yat	Professor	University of California, Santa Cruz Department of Chemistry & Biochemistry
Li, Yonghong	Research Scientist	Texas Instruments
Lin, Keng-hui	Associate Research Fellow	Academia Sinica, Taiwan Institute of Physics
Liu, Jia	Assistant Professor	Harvard University School of Engineering and Applied Sciences
Liu, Jie	Professor	Duke University Department of Chemistry
Lu, Wei	Professor	University of Michigan-Ann Arbor Department of Electrical Engineering & Computer Science
Mankin, Max	Co-founder and Chief Technology Officer	Modern Electron Inc.

3/19/2020	Former Group Members - Lieber Research GroupThe Lieber group is focused broadly on science and technology at the nanoscale - Lieb...	
McAlpine, Michael	Professor	University of Minnesota Department of Mechanical Engineering
Morales, Alfredo	Manager	Sandia National Laboratories Radiation and Nuclear Detection Materials and Analysis
Nam, SungWoo	Associate Professor	University of Illinois at Urbana-Champaign Department of Mechanical Science and Engineering
Nelson, Erik	Director   Optoelectronic Devices	Fathom Computing
Niu, Chunming	Professor	Xi'an Jiaotong University Center of Nanomaterials for Renewable Energy
No, You-Shin	Assistant Professor	Konkuk University Department of Physics
Noy, Aleksandr	Associate Adjunct Professor	University of California, Merced; School of Natural Sciences
Odom, Teri	Professor	Northwestern University Department of Chemistry
Oosterkamp, Tjerk	Professor	Leiden University, Netherlands Department of Physics
Ouyang, Min	Professor	University of Maryland Department of Physics
Park, Hong-Gyu	Professor	Korea University Department of Physics
Park, Jang-Ung	Associate Professor	Yonsei University Department of Materials Science and Engineering
Park, Won Il	Professor	Hanyang University, Korea Division of Materials Science & Engineering
Patolsky, Fernando	Associate Professor	Tel Aviv University, Israel School of Chemistry
Qian, Fang	Research Staff	Lawrence Livermore National Laboratory Materials Science Division

Qiao, Zheng-Ping	Associate Professor	Sun Yat-Sen University Department of Chemistry & Chemical Engineering
Qing, Quan	Associate Professor	Arizona State University Department of Physics/The Biodesign Institute
Radovanovic, Pavle	Professor	University of Waterloo, Canada Department of Chemistry
Rueckes, Thomas	Chief Technical Officer	Nantero, Inc.
Schuhmann, Thomas	Technology Prospector	X – The Moonshot Factory
Sheehan, Paul	Program Manager, Biological Technologies Office	Defense Advanced Research Projects Agency
Shim, Wooyoung	Associate Professor	Yonsei University Department of Materials Science and Engineering
Smith, David	Professor	University of Southampton Nanomaterials Group
Stevens, Andrew	Managing Director	DC Energy
Strehle, Steffen	Professor	Ilmenau University of Technology Department of Mechanical Engineering Microsystems Technology
Tian, Bozhi	Associate Professor	University of Chicago Department of Chemistry
Timko, Brian	Assistant Professor	Tufts University Department of Biomedical Engineering
Venkataraman, Latha	Professor	Columbia University Department of Applied Physics & Applied Mathematics
Vezenov, Dmitri	Associate Professor	Lehigh University Department of Chemistry



Wang, Deli	President	NEEM Scientific, Inc.
Wang, Jianfang	Professor	The Chinese University of Hong Kong Department of Physics
Wang, Lu	Preceptor	Harvard University Department of Chemistry and Chemical Biology
Wang, Wayne	Senior Scientist	BioScale, Inc.
Wang, Yueli	Research Associate	DuPont Photopolymer and Electronic Materials
Wei, Qingqiao	Hardware Design Engineer	Hewlett-Packard Company
Whang, Dongmok	Professor	Sungkyunkwan University, Korea School of Advanced Materials Science & Engineering
Wong, Chun-Yuen	Associate Professor	City University of Hong Kong Department of Biology and Chemistry
Wong, Eric	Research Scientist	Caelux Corporation
Wong, Stanislaus	Professor	SUNY Stony Brook Department of Chemistry
Woolley, Adam	Professor	Brigham Young University Department of Chemistry & Biochemistry
Wu, Kevin Xiangliang	Senior Vice President and Managing Director, Asia Pacific	Ascend Performance Materials
Wu, Yue	Associate Professor	Iowa State University Department of Chemical and Biological Engineering
Wyatt, Philip	Chief Executive Officer	Wyatt Technology Corporation
Xiang, Jie	Patent Agent	Wolf, Greenfield & Sacks, P.C. Electrical and Computer Technologies
Xie, Chong	Associate Professor	Rice University Department of Electrical and Computer Engineering Engineering

Xie, Ping Associate Director Oxford Nanopore Technologies, Inc.

Xiong, Qihua Professor  
Associate Chair of Research  
Nanyang Technological University, Singapore  
Division of Physics and Applied Physics-  
SPMS/SEEE

Xu, Lin Professor  
Wuhan University of Technology  
State Key Laboratory of Advanced Technology for  
Materials Synthesis & Processing

Yan, Hao Assistant Professor  
University of North Texas  
Department of Chemistry

Yang, Chen Associate Professor  
Boston University  
Department of Electrical and Computer  
Engineering

Yang, Peidong Professor  
University of California, Berkeley  
Department of Chemistry

Yang, Sung-Ik Professor  
Kyung Hee University, Korea  
Department of Applied Chemistry

Yao, Jun Assistant Professor  
University of Massachusetts, Amherst  
Department of Electrical and Computer  
Engineering, Institute for Applied Life Sciences

Yao, Zhen Associate Professor  
University of Texas at Austin  
Department of Physics

Yerushalmi, Roie Professor  
The Hebrew University of Jerusalem  
Institute of Chemistry

Yoon, Seokwon Professor  
Catholic University of Korea  
Department of Physics

You, Siheng Postdoctoral Fellow  
Massachusetts Institute of Technology  
Koch Institute

Yu, Guihua Associate Professor  
The University of Texas at Austin  
Department of Mechanical Engineering

Yu, Zhe Associate Professor  
Shenzhen Institutes of Advanced Technology,  
Chinese Academy of Sciences  
Research Center for Neural Engineering, IBHE

Zhang, Jian Software Engineering  
Manager  
Optikos Corporation

Zhang, Zhe	Executive Vice President	Silan Microelectronics
Zhang, Z. John	Professor	Georgia Institute of Technology School of Chemistry & Biochemistry
Zhao, Yunlong	Assistant Professor	University of Surrey, Advanced Technology Institute; National Physical Laboratory (UK)
Zheng, Gengfeng	Professor	Fudan University Laboratory of Advanced Materials and Department of Chemistry
Zheng, Xiaolin	Associate Professor	Stanford University Department of Mechanical Engineering
Zhong, Zhaohui	Associate Professor	University of Michigan Department of Electrical Engineering and Computer Science
Zhou, Wei	Assistant Professor	Virginia Tech Department of Electrical and Computer Engineering



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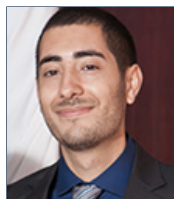
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## Grad Students



**Robert Viveros**



**Xiao Yang**



**Anqi Zhang**

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## Post Docs



Bing Deng



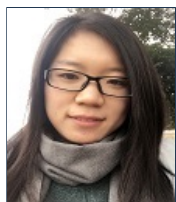
Jongha Lee



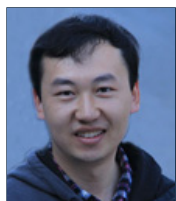
Jung Min Lee



Dingchang Lin



Yue Qi



Tao Zhou



Ted Zwang

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### Administrative Staff



**Kathleen M. Ledyard**

Laboratory Manager  
617-384-7701



**Ariel de Botton**

Administrative Coordinator  
617-496-9625

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Congratulations to Tian-Ming on winning the Silver MRS Meeting Graduate Student Award for academic achievements and a high level of excellence and distinction in current materials research. Congratulations, Tian-Ming!

Congratulations to Anqi Zhang who has been named a recipient of the Certificates of Distinction in Teaching for the spring semester for course Chem 27. The award is presented by the Bok Center at Harvard. Congratulations, Anqi!

Congratulations to Robert Day and Ruixuan Gao on winning the Dudley R. Herschbach Teaching Award. Congratulations, Bobby and Rui!

Congratulations to Xiaochuan Dai and Zhe Jiang on receiving the Chinese Government Award for Outstanding Students Studying Abroad. Congratulations Xiaochuan and Zhe!

Congratulations to Thomas Schuhmann on receiving the 2015 National Defense Science and Engineering Graduate (NDSEG) Fellowship!

Congratulations to Bobby Day and Ruixuan Gao on receiving the 2013 Teaching Award for Chem 158 and to Tiang-Ming Fu on receiving the Award for Phys Sci 11!

Thomas Kempa wins the 2013 IUPAC Prize for Young Chemists for his thesis work in the Lieber group. Congratulations, Tom!

Tzahi Cohen-Karni receives one of six 2012 IUPAC Prizes for Young Chemists! Congratulations, Tzahi!

Max Mankin is awarded a Fannie and John Hertz Foundation Fellowship – congratulations, Max!

Tom Kempa receives the Dudley R. Herschbach Teaching Award for his outstanding efforts as a TF. Congratulations, Tom!

Bozhi Tian wins the 2011 IUPAC Prize for Young Chemists for his thesis work in the Lieber group. Congratulations, Bozhi!

Congratulations to Hwan Sung Choe, winner of the Best Poster Award at the 2011 MRS Spring Meeting!

Tom Kempa wins the Silver Award and SungWoo Nam the Gold at the 2011 MRS Spring Meeting –congratulations, Tom and SungWoo!

Yongjie Hu is a winner in the Science as Art Competition at the 2010 MRS Fall Meeting. See his winning image “Grassland Sunrise” here!

Yongjie Hu wins the 2010 Chinese Government Award for Outstanding Students Studying Abroad. Congratulations, Yongjie.

Congratulations to Professor Lieber – ranked #1 in Chemistry for the decade 2000-2010 by Thomson Reuters (Top Chemists of the Past Decade, Essential Science Indicators, 1 January 2000 –31 October 2010)

Bozhi Tian and Tzahi Cohen-Karni received third prize in the Collegiate Inventors Competition for their design of a three-dimensional flexible field-effect transistor capable of acting as an intracellular probe. Congratulations, Bozhi and Tzahi! [Finalists' Profiles]

Guihua Yu wins one of five 2010 IUPAC Prizes for Young Chemists for his Ph.D. Thesis, “Assembly and Integration of Semiconductor Nanowires for Functional Nanosystems: from Nanoelectronics to Nanobiotechnology.” Congratulations, Guihua!

James Cahoon is one of only four recipients of the ACS Physical Chemistry Division Postdoctoral Research Award, which will be presented at the 2010 ACS National Meeting in Boston. Congrats, James!

SungWoo Nam wins the 2010 International Solid State Circuits Conference (ISSCC) Analog Devices Outstanding Student Designer Award – congratulations, SungWoo!

Tzahi Cohen-Karni wins the Gold Award at the 2009 MRS Fall Meeting. Congratulations, Tzahi!



Xiaojie Duan receives a Chinese Government Award for the Top 100 Ph.D. Theses in 2009. Hers is one of only six in the field of Chemistry – congratulations, Xiaojie!

SungWoo Nam is awarded a 2009-2010 Graduate School of Arts and Sciences Merit Fellowship. Congratulations SungWoo!

Bozhi Tian wins the Dudley R. Herschbach Teaching Award for the Fall Semester of Academic Year 2009. Great work, Bozhi!

Bozhi Tian wins the ACS Division of Inorganic Chemistry's Young Investigator Award. He will present his award talk at the Fall 2009 ACS Meeting in Washington, D.C. Congratulations Bozhi!

Bozhi Tian wins the Chinese Government Award for Outstanding Students Studying Abroad. Congratulations Bozhi!

Brian Timko wins the Gold Award and Bozhi Tian wins the Silver Award at the 2008 MRS Fall Meeting in Boston. Congratulations Brian and Bozhi!

Fang Qian wins the Chinese Government Award for Outstanding Student Studying Abroad. Congrats Fang!!

Guihua Yu wins the Silver Award at the 2007 MRS Fall Meeting. Congratulations Guihua!

Brian Timko wins the 2006 W.H. Peterson Award from ACS Biochemical Technology Division. Congratulations Brian!

Fang Qian wins the Gold Award at the 2007 MRS Spring Meeting. Congratulations Fang!

Jie Xiang wins the Gold Award at the 2006 MRS Fall Meeting. Congratulations Jie!

Jie Xiang is awarded the first Kavli Nanoscience Institute Prize Postdoctoral Fellowship at the California Institute of Technology. Congratulations Jie!

Brian Timko wins Best Poster Award at the 2006 MRS Spring Meeting in San Francisco. Congratulations Brian!

Gengfeng Zheng wins the Gold Award at the 2006 MRS Spring Meeting. Congratulations Gengfeng!

Fang Qian wins ACS's Inorganic Young Investigator Award. She will present her award talk at the Fall 2006 ACS Meeting in San Francisco. Congratulations Fang!

Fernando Patolsky wins Israel's Gerhard Schmidt Memorial Prize for the best Ph.D. thesis in Chemistry. Congratulations Fernando!

Hong-Gyu Park wins the Best Korean Young Physicist prize from the Korean Physics Society. Congratulations Hong Gyu!

Yue Wu wins the Gold Award and Robin Friedman wins the Silver Award at the 2005 MRS Spring Meeting in San Francisco. Congratulations Yue and Robin!

Yue Wu wins the Excellent Chinese Graduate Student Studying Aboard Award from the Scholarship Council of the Ministry of Education of China. Congratulations Yue!



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The National Defense Science and Engineering Graduate (NDSEG) Fellowship is a highly competitive, portable fellowship that is awarded to U.S. citizens and nationals who intend to pursue a doctoral degree in one of fifteen [supported disciplines](#). NDSEG confers high honors upon its recipients, and allows them to attend whichever U.S. institution they choose. NDSEG Fellowships last for three years and pay for full tuition and all mandatory fees, a monthly stipend, and up to \$1,000 a year in medical insurance (this excludes dental and vision insurance).

The Department of Defense (DoD) is committed to increasing the number and quality of our nation's scientists and engineers, and towards this end, has awarded nearly 3,400 NDSEG fellowships since the program's inception in 1989. The NDSEG Fellowship is sponsored by the [Air Force Office of Scientific Research](#) (AFOSR), the [Army Research Office](#) (ARO), and the [Office of Naval Research](#) (ONR), under the direction of the [Director of Defense Research and Engineering](#) (DDR&E).

**Note: The 2018 application and 2017 Fellow Class tenures are being administered by STI-TEC. Please visit [www.ndsegfellowship.org](http://www.ndsegfellowship.org) for more information.**

**All 2015 & 2016 Fellowship Tenures are currently being administered by the NDSEG Program Team at ASEE. For all inquiries related to the 2015 & 2016 Fellow classes, please contact the NDSEG Program Team at ASEE via e-mail at [NDSEG@asee.org](mailto:NDSEG@asee.org).**

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