# **Angi ZHANG**

# **California Institute of Technology**

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# PROFESSIONAL EXPERIENCE

## **Assistant Professor of Medical Engineering**

Starting Mar 2025

Division of Engineering and Applied Science, California Institute of Technology

#### **EDUCATION**

Ph.D. in ChemistryHarvard University, Cambridge, MAMay 2020M.A. in ChemistryHarvard University, Cambridge, MAMay 2017B.S. in Materials ScienceFudan University, Shanghai, ChinaJul 2014

**RESEARCH EXPERIENCE** (with first-author publications)

Postdoctoral Scholar Aug 2020 – Present

Departments of Bioengineering and Chemical Engineering, Stanford University

Advisors: Professor Karl Deisseroth and Professor Zhenan Bao

- Developed genetically targeted chemical assembly of functional materials within selected cell types of the nervous system (*Science Advances*, 2023a; *Nature Synthesis*, 2024)
- Demonstrated genetically encoded photosensitizers for light-controlled polymerization and explored genetically enabled conjugation of pre-synthesized materials on living neuronal membranes (*Nature Reviews Bioengineering*, 2024)
- Developed flexible endovascular neural interfaces delivered into selected vascular branches in rodent brains without open-skull surgery and achieved multi-/single-unit neural recording (Science, 2023; AHA Postdoctoral Fellowship; NIH K99/R00 Award)

# **Doctoral Student Researcher**

Dec 2014 - May 2020

Department of Chemistry and Chemical Biology, Harvard University

Advisor: Professor Charles M. Lieber

- Functionalized ultra-flexible mesh electronics with antibodies and aptamers capable of targeting specific cell surface receptors, and demonstrated *in vivo* cell type- and neuron subtype-specific electrophysiology recording (*Science Advances*, 2023b)
- Developed ultra-small nanowire transistor arrays by combining deterministic shape-controlled nanowire transfer with spatially defined semiconductor-to-metal transformation and achieved recording of up to 100 mV intracellular action potentials from primary neurons (*Nature Nanotechnology*, 2019; *Nano Today*, 2020, 2021; *Chemical Reviews*, 2016)
- Developed a biomimetic approach for surface functionalization of silicon nanowires to facilitate spontaneous internalization of nanowires into primary neurons (*Nano Letters*, 2016)

#### **Undergraduate Researcher**

Nov 2010 – Jul 2014

Department of Materials Chemistry, Fudan University

Advisor: Professor Meng Chen

- Developed a template-free, kinetically-controlled solution growth of silica nanotubes and other unconventional silica anisotropic nanostructures (*Nanotechnology*, 2014)
- Developed methods to synthesize polymer-coated semiconductor nanoparticles (*Journal of Nanoparticle Research*, 2014; *Crystal Research and Technology*, 2013)
- Developed simulation based on Discrete Dipole Approximation theory to predict spectra of nanoparticles (*European Physical Journal D*, 2013)

Anqi Zhang Page 2 of 5

## **PUBLICATIONS**

# First-author / Corresponding-author papers:

(1) <u>Anqi Zhang</u>, Spencer Zhao, Jonathan Tyson, Karl Deisseroth, Zhenan Bao, Applications of synthetic polymers directed toward living cells. *Nature Synthesis*. 2024, doi: 10.1038/s44160-024-00560-2.

- (2) <u>Anqi Zhang</u>, Yuanwen Jiang, Kang Yong Loh, Zhenan Bao, Karl Deisseroth, Genetically targeted chemical assembly. *Nature Reviews Bioengineering*. 2024, 2, 82-94.
- (3) <u>Anqi Zhang</u>†, Emiri T. Mandeville, Lijun Xu, Creed M. Stary, Eng H. Lo, Charles M. Lieber†, Ultraflexible endovascular probes for brain recording through micron-scale vasculature. *Science*. 2023, 381, 306-312. (†corresponding authors) Covered by <u>Science</u>, <u>Stanford</u>, <u>Physics World</u>, etc.
- (4) <u>Anqi Zhang\*</u>, Theodore J. Zwang\*, Charles M. Lieber, Biochemically-functionalized probes for cell-type–specific targeting and recording in the brain. *Science Advances*. 2023, 9, eadk1050. (\*equal contribution)
- (5) <u>Anqi Zhang</u>, Kang Yong Loh, Chandan S. Kadur, Lukas Michalek, Jiayi Dou, Charu Ramakrishnan, Zhenan Bao, Karl Deisseroth, Genetically targeted chemical assembly of polymers specifically localized extracellularly to surface membranes of living neurons. *Science Advances*. 2023, 9, eadi1870. Covered by Stanford.
- (6) <u>Anqi Zhang</u>†, Jae-Hyun Lee, Charles M. Lieber, Nanowire-enabled bioelectronics. *Nano Today*. 2021, 38, 101135. (†corresponding author)
- (7) <u>Anqi Zhang</u>, Yunlong Zhao, Siheng Sean You, Charles M. Lieber, Nanowire probes could drive high-resolution brain-machine interfaces. *Nano Today*. 2020, 31, 100821.
- (8) Yunlong Zhao\*, Siheng Sean You\*, <u>Anqi Zhang</u>\*, Jae-Hyun Lee, Jinlin Huang, Charles M. Lieber, Scalable ultrasmall three-dimensional nanowire transistor probes for intracellular recording. *Nature Nanotechnology*. 2019, 14, 783-790. (\*equal contribution)
- (9) Anqi Zhang, Charles M. Lieber, Nano-bioelectronics, *Chemical Reviews*. 2016, 116, 215-257.
- (10) Jae-Hyun Lee\*, <u>Anqi Zhang\*</u>, Siheng Sean You\*, Charles M. Lieber, Spontaneous internalization of cell penetrating peptide-modified nanowires into primary neurons, *Nano Letters*. 2016, 16, 1509-1513. (\*equal contribution)
- (11) <u>Anqi Zhang</u>, Gengfeng Zheng, Exploration of interactive teaching in all-English course of General Chemistry, *Research in Teaching* (Chinese). 2015, 38, 49-52.
- (12) <u>Anqi Zhang</u>, Hui-Jun Li, Dong-Jin Qian, Meng Chen, Kinetically-controlled template-free synthesis of hollow silica micro-/nanostructures with unusual morphologies, *Nanotechnology*. 2014, 25, 135608.
- (13) <u>Anqi Zhang</u>, Qing-Zhe Tan, Hui-Jun Li, Li Sui, Dong-Jin Qian, Meng Chen, pH-dependent shape changes of water-soluble CdS nanoparticles, *Journal of Nanoparticle Research*. 2014, 16, 2197.
- (14) <u>Anqi Zhang</u>, Meng Chen, Discoveries and thoughts about new carbon nanostructures, *University Chemistry* (Chinese). 2014, 29, 48-53.
- (15) <u>Anqi Zhang</u>, Gengfeng Zheng, Cultivation of students' scientific research interest and innovative thinking Practice and experience in the research course of *Introduction to Nanomaterials and Functional Devices*, *Journal of Chemical Education* (Chinese). 2014, 14, 15-17.
- (16) <u>Anqi Zhang</u>, Ling-Jian Cai, Li Sui, Dong-Jin Qian, Meng Chen, Reducing properties of polymers in the synthesis of noble metal nanoparticles, *Polymer Reviews*. 2013, 53, 240-276.
- (17) <u>Anqi Zhang</u>, Dong-Jin Qian, Meng Chen, Simulated optical properties of noble metallic nanopolyhedrons with different shapes and structures, *European Physical Journal D*. 2013, 67, 231.
- (18) <u>Anqi Zhang</u>, Lu Zhang, Li Sui, Dong-Jin Qian, Meng Chen, Morphology-controllable synthesis of ZnO nano-/micro- structures by a solvothermal process in ethanol solution, *Crystal Research and Technology*. 2013, 48, 947-955.

### First-author book:

(19) <u>Anqi Zhang</u>, Gengfeng Zheng, Charles M. Lieber, *Nanowires: Building Blocks for Nanoscience and Nanotechnology*, Springer International Publishing, 2016.

Angi Zhang Page 3 of 5

## First-author book chapter:

(20) <u>Anqi Zhang</u>, Gengfeng Zheng, "Semiconductor nanowires for biosensors", Chap. 17, *Semiconductor Nanowires: Materials, Synthesis, Characterization and Applications*, J. Arbiol and Q. Xiong (Eds.), Woodhead Publishing Group, UK, 2015.

## **Co-author papers:**

- (21) Muhammad Khatib, Eric T Zhao, Shiyuan Wei, Alex Abramson, Estelle B Bishop, Chih-Hsin Chen, Anne-Laure Thomas, Chengyi Xu, Jaeho Park, Yeongjun Lee, Ryan Hamnett, Weilai Yu, Samuel E Root, Lei Yuan, Dorine Chakhtoura, Kyun Kyu Kim, Donglai Zhong, Yuya Nishio, Chuanzhen Zhao, Can Wu, Yuanwen Jiang, **Anqi Zhang**, Jinxing Li, Weichen Wang, Fereshteh Salimi-Jazi, Talha A. Rafeeqi, Nofar M Hemed, Jeffrey B-H Tok, Xiaoke Chen, Julia A Kaltschmidt, James Dunn, and Zhenan Bao, Spiral NeuroString: high-density soft bioelectronic fibers for multimodal sensing and stimulation. *bioRxiv*. 2023, doi: 10.1101/2023.10.02.560482.
- (22) Eric T. Zhao, Jacob Hull, Nofar Mintz Hemed, Hasan Uluşan, Julian Bartram, <u>Anqi Zhang</u>, Pingyu Wang, Albert Pham, Silvia Ronchi, John R. Huguenard, Andreas Hierlemann, Nicholas A. Melosh, A CMOS-based highly scalable flexible neural electrode interface. *Science Advances*. 2023, 9, eadf952.
- (23) Theodore J. Zwang, Rachel E. Bennett, Maria Lysandrou, Benjamin Woost, <u>Anqi Zhang</u>, Charles M. Lieber, Douglas S. Richardson, Bradley T. Hyman, Tissue libraries enable rapid determination of conditions that preserve antibody labeling in cleared mouse and human tissue. *eLife*. 2023, 12, e84112.
- (24) Ning Gao, Teng Gao, Xiao Yang, Xiaochuan Dai, Wei Zhou, <u>Anqi Zhang</u>, and Charles M. Lieber, Specific detection of biomolecules in physiological solutions using graphene transistor biosensors, *Proceedings of the National Academy of Sciences*. 2016, 113, 14633-14638.
- (25) Rui Dai, <u>Anqi Zhang</u>, Zhichang Pan, Abdullah M. Al-Enizi, Ahmed A. Elzatahry, Linfeng Hu, Gengfeng Zheng, Epitaxial growth of lattice-mismatched core-shell TiO<sub>2</sub>@MoS<sub>2</sub> for enhanced lithium-ion storage, *Small*. 2016, 12, 2792-2799.
- (26) Yang Hu, <u>Anqi Zhang</u>, Hui-Jun Li, Dong-Jin Qian and Meng Chen, Synthesis, study, and discrete dipole approximation simulation of Ag-Au bimetallic nanostructures, *Nanoscale Research Letters*. 2016, 11, 209.
- (27) Hui-Jun Li, **Anqi Zhang**, Li Sui, Dong-Jin Qian, Meng Chen, Hyaluronan/Tween 80-assisted synthesis of silver nanoparticles for biological application, *Journal of Nanoparticle Research*. 2015, 17, 111.
- (28) Hui-Jun Li, <u>Anqi Zhang</u>, Yang Hu, Li Sui, Dong-Jin Qian, Meng Chen, Large-scale synthesis and self-organization of silver nanoparticles with Tween 80 as a reductant and stabilizer, *Nanoscale Research Letters*. 2012, 7, 612.

#### SELECTED HONORS AND AWARDS

National Institutes of Health K99/R00 Award	2024 - 2029
American Heart Association Postdoctoral Fellowship	2023 - 2024
EAS (Engineering and Applied Science) Trailblazers Symposium, California Institute	Nov 2023
of Technology	
Rising Stars in Chemical Engineering, Massachusetts Institute of Technology	Oct 2023
Rising Stars in Soft and Biological Materials, The University of Chicago, The	Oct 2023
University of California San Diego	
Rising Stars in Engineering in Health, Cornell University, Johns Hopkins University,	Sep 2023
Columbia University	
Chinese Government Award for Outstanding Self-Financed Students Abroad, China	2019
Scholarship Council	
Department Travel Prize for Outstanding Research Achievement, Department of	2019
Chemistry and Chemical Biology, Harvard University	
Best Poster Award, Center for Nanoscale Systems, Harvard University	2017

Anqi Zhang Page 4 of 5

Certificate of Distinction in Teaching Award (Chemistry 27: Organic Chemistry of Life), Harvard University Star of the Graduates (top 10 out of 3,800 students), Fudan University National University Innovation Program (top 1%), Ministry of Education of China Shanghai Innovation Activity Plan for Undergraduates (top 1%), Shanghai Municipal Education Commission Chun-Tsung and Wang-Dao Research Grants, Hui-Chun Chin and Tsung-Dao Lee Chinese Undergraduate Research Endowment National Scholarship, Ministry of Education of China Outstanding Academic Individuals of Bachelor's Degree, Fudan University Top-10 Outstanding Oral Presentation Award, Annual Conference of National Undergraduate Innovation and Entrepreneurship, China Best Oral Presentation Award, Shanghai Undergraduate Innovation Forum Top Outstanding Student (top 0.1%), Fudan University  PRESENTATIONS  Stanford MatSci Colloquium, Stanford University, Stanford, CA American Institute of Chemical Engineers (AlChE) Annual Meeting, Orlando, FL Oster American Institute of Chemical Engineers (AlChE) Annual Meeting, Seattle, WA Biomedical Engineering Society (BMES) Shanual Meeting, Seattle, WA Biomedical Engineering Soc	Certificate of Distinction in Teaching Award (Physical Sciences 10: Quantum	1 and	Fall	2015
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Biomedical Engineering Society (BMES) Annual Meeting, Seattle, WA  Sep 2023 Stanford Anesthesiology Research Seminar, Stanford University, Stanford, CA  Gordon Research Conference (GRC) – Bioelectronics, Andover, NH  Gordon Research Conference (GRC) – Bioelectronics, Andover, NH  Gordon Research Conference (GRC) – Bioelectronics, Andover, NH  Calk  Jun 2023 Cambridge Bioelectronics Symposium, University of Cambridge, Cambridge, UK  Talk  Jun 2023 Stanford Polymer Collective, Stanford University, Stanford, CA  Annual Future Manufacturing Awardees Meeting, National Science Foundation  Talk  Apr 2022 Center for Nanoscale Systems Open House, Harvard University  Poster  Nov 2017 American Chemical Society (ACS) Fall Meeting, Washington, DC  Poster  Aug 2017 Materials Research Society (MRS) Fall Meeting, Boston, MA  Talk  Dec 2014 Annual Conference of National Undergraduate Innovation and Entrepreneurship  Talk  Nov 2013 Shanghai Undergraduate Innovation Forum, Shanghai, China  Universitas 21 Undergraduate Research Conference, Amsterdam, Netherlands  Talk  Talk  Talk  Talk  Talk  Talk  Nov 2013  TEACHING AND MENTORING EXPERIENCE  Instructor, Montague Elementary School, Science is Elementary (SiE)  Volunteered as a science instructor for kindergarteners from backgrounds historically underrepresented in science  Highlighted as a Volunteer Spotlight in SiE's monthly newsletter  Organizer and Instructor, GTCA Biomanufacturing Workshop, Stanford University  Trained over 260 local high school and community college students from	• • • • • • • • • • • • • • • • • • • •			
Stanford Anesthesiology Research Seminar, Stanford University, Stanford, CA  Talk  Gordon Research Conference (GRC) – Bioelectronics, Andover, NH  Gordon Research Conference (GRC) – Bioelectronics, Andover, NH  Gordon Research Conference (GRC) – Bioelectronics, Andover, NH  Cambridge Bioelectronics Symposium, University of Cambridge, Cambridge, UK  Stanford Polymer Collective, Stanford University, Stanford, CA  Annual Future Manufacturing Awardees Meeting, National Science Foundation  Talk  Apr 2022  Center for Nanoscale Systems Open House, Harvard University  American Chemical Society (ACS) Fall Meeting, Washington, DC  Materials Research Society (MRS) Fall Meeting, Boston, MA  Annual Conference of National Undergraduate Innovation and Entrepreneurship  Talk  Nov 2013  Shanghai Undergraduate Innovation Forum, Shanghai, China  Universitas 21 Undergraduate Research Conference, Amsterdam, Netherlands  Talk  Talk  Talk  Talk  Nov 2013  TEACHING AND MENTORING Experience  Instructor, Montague Elementary School, Science is Elementary (SiE)  Volunteered as a science instructor for kindergarteners from backgrounds historically underrepresented in science  Highlighted as a Volunteer Spotlight in SiE's monthly newsletter  Organizer and Instructor, GTCA Biomanufacturing Workshop, Stanford University  Trained over 260 local high school and community college students from				
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Anqi Zhang Page 5 of 5

Mentor, Summer First program, Equity and Inclusion Initiatives, Stanford University	2021
Mentored incoming graduate student women of color	
Mentor, Mentor/Mentee Program, Harvard University	July 2015
Mentored new graduate students in lab, including women of color	
Teaching Fellow, Quantum and Statistical Foundations of Chemistry, Harvard University	Fall 2015
Received the Certificate of Distinction in Teaching Award	
Teaching Fellow, Organic Chemistry of Life, Harvard University	Spring 2015
Received the Certificate of Distinction in Teaching Award	
Teaching Fellow, Nanomaterials and Functional Devices, Fudan University	2013 - 2014
Published a paper on teaching (Journal of Chemical Education 2014)	
Teaching Fellow, General Chemistry, Fudan University	2013 - 2014
Published a paper on teaching (Research in Teaching 2015)	
TOEFL Lecturer, New Oriental Education & Technology Group, Shanghai, China	2012 - 2014
Taught over 1,000 students, from middle school students to adults in their 40s	
SERVICE	
Discussion Leader, Gordon Research Conference (GRC) - Neuroelectronic, Galveston, TX	Mar 2024
Review Editor, Frontiers in Electronics	Aug 2023
Committee Member, Cambridge Bioelectronics Symposium, University of Cambridge	Jun 2023
Science Writer, Science in the News (SITN), Harvard University	2018 –
Selected articles on brain stimulation, artificial nerves, drug delivery, wound	2019
healing, cancer treatment, eye diseases, and osteoarthritis	
Independent Reviewer, Science Advances, Nano Letters, Journal of the American Chemical	2014 –
Society, ACS Applied Electronic Materials, Device, Advanced NanoBiomed Research,	present
Journal of Integrative Neuroscience, Journal of Colloid and Interface Science, Materials	_
Research Society (MRS) Meetings	