

XIA GROUP ALUMNI (in the alphabetic order of last name, last updated on 1/18/2015)

Ph.D. Students

Leslie Au (Ph.D., 2009) is the 13th Ph.D. from the Xia group. She contributed to the synthesis of gold nanocages and explored their use in various biomedical applications, including two-photon luminescence, photothermal cancer treatment, and photoacoustic imaging. After graduation, she went back to Hawaii, her hometown, to take a position of senior research scientist at Oceanit.

Alejandro Briseno (Ph.D., 2008) is the 9th Ph.D. from the Xia group. He contributed to the synthesis of organic/polymeric semiconductor nanorods/nanowires and also explored their use in the fabrication of electronic devices. He then did postdoc with Prof. Peidong Yang at UC Berkeley and is currently a tenure-track Assistant Professor in the Department of Polymer Science and Engineering at the University of Massachusetts, Amherst, MA, USA (<http://www.pse.umass.edu/~abriseno/>).

Pedro Camargo (Ph.D., 2009) is the 12th Ph.D. from the Xia group. He contributed to several projects related to the synthesis of colloidal spheres and nanocrystals, as well as their assembly into crystalline lattices and dimers for applications in photonic crystals and surface-enhanced Raman scattering (SERS), respectively. He is currently a Full Professor of Chemistry at the University of San Paulo, Brazil (<http://www.iq.usp.br/camargo/Home.html>).

Jingyi Chen (Ph.D., 2006) is the 5th Ph.D. from the Xia group. She contributed to two major projects: *i*) synthesis of platinum nanostructures with new shapes and morphologies, and *ii*) development of gold nanocages for biomedical applications, including imaging and photothermal cancer treatment. She then did postdoc with Prof. Stanley Wong at SUNY Stone Brook and is currently a tenure-track Assistant Professor in the Department of Chemistry and Biochemistry at the University of Arkansas, Fayetteville, AR, USA (<http://comp.uark.edu/~chenj/>).

Claire Cobley (Ph.D., 2009) is the 14th Ph.D. from the Xia group. She contributed to the synthesis of gold nanocages and exploration of their use in biomedical applications, including photothermal cancer treatment, photoacoustic imaging, and three-photon luminescence imaging. She then worked with Prof. Joachim Spatz at the Max Planck Institute and University of Heidelberg, in Germany, as a postdoctoral fellow. She then took her current position as an Associate Editor of *Chemistry – A European Journal* and *ChemNanoMat*, two Wiley-VCH journals.

Eric Formo (Ph.D., 2009), is the 11th Ph.D. from the Xia group. He contributed to the functionalization of ceramic nanofibers (fabricated by electrospinning and calcination) with Pt nanoparticles and nanorods for catalytic and electrocatalytic applications. He then went to Oak Ridge National Laboratory and worked as a postdoctoral fellow there for three years. He is currently a research scientist at the University of Georgia, Athens.

Byron Gates (Ph.D., 2001), is the 1st Ph.D. from the Xia group. He contributed to two major projects: *i*) self-assembly of spherical colloids for photonic crystal applications, and *ii*) synthesis of selenium (*t*-Se) nanowires and their transformation into Ag₂Se without changing the single-crystallinity and morphology. He then did postdoc with Prof. George M. Whitesides at Harvard and is currently a tenured Associate Professor in the Department of Chemistry at Simon Fraser University, Burnaby, Canada (<http://www.sfu.ca/chemistry/groups/gates/index.htm>).

Eric Lee (Ph.D., 2008), is the 10th Ph.D. from the Xia group. He contributed to the synthesis of platinum nanowires on different types of solid supports (including polymer beads, platinum meshes, and silicon substrates) for electrocatalytic applications. He then did postdoc with Prof. Luke Lee at UC Berkeley and worked at Cabot as a research scientist. He is currently a senior research scientist and group leader at Armored Autogroup.

Weiyang Li (Ph.D., 2011), is the 16th Ph.D. from the Xia group. She contributed to the synthesis and assembly of silver nanospheres into dimers for surface-enhanced Raman scattering (SERS) application. She also contributed to a projects related to the use of gold nanocages in biomedical applications, including photothermal cancer

treatment, photoacoustic imaging, and controlled drug release. She is working as a postdoctoral fellow with Prof. Yi Cui at Stanford University in the Department of Materials Science and Engineering.

Wenyang Liu (Ph.D., 2014). She is the 20th Ph.D. from the Xia group. She contributed to the use of electrospun nanofibers for biomedical applications, including nerve tissue engineering, and the repairs of tendon and tendon-to-bone insertion.

Yu Lu (Ph.D., 2003). She is the 4th Ph.D. from the Xia group. She contributed to the fabrication and assembly of colloidal particles with non-spherical shapes for photonic applications. She then did postdoc with Prof. Luke Lee at UC Berkeley and worked at Intel as a research scientist. She is currently a research faculty at the University of California, Riverside, CA, USA.

Brian Mayers (Ph.D., 2003). He is the 3rd Ph.D. from the Xia group. He contributed to the synthesis of tellurium nanorods, nanowires, and nanotubes and was also involved in the development of polyol method for the synthesis of silver pentagonal nanowire. He then did postdoc with Prof. George M. Whitesides at Harvard and is currently the VP for Technology Development at Nano Terra, Brighton, MA, USA (<http://www.nanoterra.com/>).

Jesse McCann (Ph.D., 2007). He is the 7th Ph.D. from the Xia group. He contributed to electrospinning and its use in the fabrication of nanofibers with controlled composition, structure, and porosity. He then went to Albert Einstein College of Medicine and received his M.D. degree in 2011. He is currently a resident in the Department of Ophthalmology at NYU Medical School, NY, USA (<http://www.med.nyu.edu/ophthalmology/residency/>).

Joseph McLellan (Ph.D., 2007). He is the 6th Ph.D. from the Xia group. He contributed to two major projects: *i*) development of edge spreading lithography; and *ii*) investigation of the surface-enhanced Raman scattering (SERS) properties of silver and palladium nanocrystals with well-controlled shapes. He is currently a VP for research at Nano Terra, Brighton, MA, USA (<http://www.nanoterra.com/>).

Christine Moran (Ph.D., 2013). She is the 18th Ph.D. from the Xia group. She contributed to a project related to the use of silver nanocrystals as surface-enhanced Raman scattering (SERS) probes. She was also involved in the development of polymer hollow particles for the encapsulation of contrast agents. She currently works for a biotechnology startup company in Auburn, Alabama.

Matthew Rycenga (Ph.D., 2011). He is the 15th Ph.D. from the Xia group. He contributed to a number of studies related to the surface-enhanced Raman scattering (SERS) properties of individual silver nanocrystals and gold nanocages, as well as their dimers. He then went to Northwestern University and worked as a postdoctoral fellow with Prof. Chad Mirkin in the Department of Chemistry.

Benjamin Wiley (Ph.D., 2007). He is the 7th Ph.D. from the Xia group. He contributed to two major projects: *i*) elucidation of the oxidative etching mechanism and its role in the synthesis of noble-metal nanocrystals, and *ii*) development of silver nanocrystals with many novel shapes. He then did postdoc with Prof. George M. Whitesides at Harvard U. and is currently a tenure-track Assistant Professor in the Department of Chemistry at Duke University, Durham, NC, USA (<http://people.duke.edu/~bjw24/>).

Yadong Yin (Ph.D., 2002). He is the 2nd Ph.D. from the Xia group. He contributed to two major projects: *i*) fabrication of free-standing nanostructures (such as wires and rings) of single-crystal silicon by combining near-field optical lithography and lift-off, and *ii*) development of template-assisted self-assembly (TASA) for generating clusters of spherical colloids with well-defined structures. He then did postdoc with Prof. A. Paul Alivisatos at UC Berkeley and is currently a tenured Full Professor in the Department of Chemistry at the University of California, Riverside, CA, USA (<http://faculty.ucr.edu/~yadongy/>).

Yu Shrike Zhang (Ph.D., 2013). He is 17th Ph.D. from the Xia group. He contributed to the development of inverse opal scaffolds for biomedical applications in tissue engineering and regenerative medicine. He also collaborated

with Prof. Lihong Wang at Washington University in St. Louis in exploring the use of photoacoustic microscopy for tissue engineering, including in situ monitoring of scaffold degradation, cell infiltration, and neovascularization. He is working as a postdoctoral fellow with Prof. Ali Khademhosseini at Harvard-MIT Health Sciences and Technology.

Yiqun Zheng (Ph.D., 2013). He is the 19th Ph.D. from the Xia group. He contributed to the synthesis of gold nanospheres with a single-crystal structure and well-controlled sizes in the range of 5-150 nm. He also developed a method for synthesizing gold tetrahedra with controlled sizes. He currently works for a nanomaterials startup company in China.

M.S. Students

Wensing Beh (M.S., 1999). She is the 1st M.S. from the Xia group. She was working on the fabrication of ceramic nanostructures and polymer-based electronic devices using soft lithographic techniques. She then went to Alien Technology and works as a research scientist.

Maureen Mckiernan (M.S., 2009). She is the 3rd M.S. from the Xia group. She was working on a project sponsored by Applied Materials to develop a procedure to coat silver nanowires with magnetically active sheaths made of nickel. She is now a M.D. student at the University of Kansas Medical School.

Andrew Siekkinen (M.S., 2006). He is the 2nd M.S. from the Xia group. He was working on the synthesis of silver nanocubes and developed a robust method based on hydrosulfide or sulfide. He then went to Nanocomposites and works as a research scientist.

Miaoxin Yang (M.S., 2011). He is the 4th M.S. from the Xia group. He was working on the development of several methods for quantitatively measuring the coverage density of poly(ethylene glycol) (PEG) chains on gold nanostructures. After working at Philips for two years, he rejoined the group in 2013 as a Ph.D. candidate in the school of chemistry and biochemistry.

Visiting Ph.D. Students

To be added.

Postdoctoral Fellows

To be added.