

Inaugural Grants Awarded for Academic Year 2011-2012

April 29, 2011

Name of Proposal	Johns Hopkins Principal Investigator	Chinese Principal Investigator
<u>The Johns Hopkins-Nanjing Center for Synthetic Genomics</u>	Jef Boeke, PhD, ScD School of Medicine	Yilu Chen, PhD Nanjing University of Technology
<u>Education and Research Partnership in Environmental Engineering, Science and Management</u>	Edward Bouwer, PhD Whiting School of Engineering	Jun Bi, PhD Nanjing University
<u>Feasibility Study for Collaboration on Entrepreneurship Programs with Nanjing University School of Business</u>	Oksana Carlson Carey Business School	Shuming Zhao, PhD Nanjing University School of Business
<u>Collaborative Program between the Department of Physics & Astronomy, Johns Hopkins University and the National Laboratory of Solid State Microstructures, Nanjing University</u>	Chia-Ling Chien, PhD Krieger School of Arts and Sciences	Mu Wang, PhD Nanjing University
<u>An Academic Partnership to Enhance Pediatric Injury Prevention</u>	Andrea C. Gielen, PhD Bloomberg School of Public Health	Qian Gao, MD, PhD Nanjing University
<u>Feasibility Study for Collaboration Between Johns Hopkins M.A. in Museum Studies and the Nanjing Museum</u>	Phyllis Hecht Krieger School of Arts & Sciences	Wentao Liu Nanjing Museum
<u>Johns Hopkins-Nanjing Exchange Program in Statistical and Data Sciences</u>	Hongkai Ji, PhD Bloomberg School of Public Health	Liwei Zhang, PhD Nanjing University
<u>Hopkins Scholars at the Hopkins-Nanjing Center</u>	Amir Pasic, PhD Nitze School of Advanced International Studies	Huang Chengfeng, PhD The Hopkins-Nanjing Center
<u>Hopkins-Nanjing Center Minorities Studies Program</u>	Thomas Simon, PhD Hopkins-Nanjing Center	Fan Ke, PhD Nanjing University
<u>The Hopkins-Nanjing Center Law Studies Initiative</u>	Thomas Simon, PhD Hopkins-Nanjing Center	Feng Chuan Nanjing University
<u>Hopkins-in-Nanjing Undergraduate Study Abroad Program</u>	Kellee Tsai, PhD Krieger School of Arts and Sciences	Aimin Cheng, PhD Nanjing University

Complete information about each proposal can be found on the following pages.

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The Johns Hopkins-Nanjing Center for Synthetic Genomics

Johns Hopkins Principal Investigator

Jef Boeke, PhD, ScD

Professor, Founding Director
High Throughput Biology Center
Department of Molecular Biology and Genetics
School of Medicine

Chinese Principal Investigator

Yilu Chen, PhD

Professor
School of Life Sciences and Pharmacy
Nanjing University of Technology

Abstract

Johns Hopkins has pioneered a very ambitious synthetic biology project over the last few years, namely to design and synthesize the first re-coded eukaryotic genome (Sc2.0 project). Arguably, engineering a synthetic genome is the most complicated engineering project a human being has ever undertaken, but it is clear that we will have a unique opportunity to explore many profound questions in the process of designing, building and analyzing this synthetic genome.

Additionally, this Center will build on our educational success with the Build A Genome course, which uses undergraduate power to produce the starting materials, called building blocks, for the project. The educational and scientific value of this project has attracted the attention of several top Chinese universities, and in particular we have been in discussions with four of them to launch an international initiative around the Sc2.0 project in 2011. The collaboration will lead to new interdisciplinary undergraduate courses, student/scholar exchanges between Hopkins and China, and to create a new research institute in Nanjing, which fits very well with the Yeung Center's scope and mission. Altogether, our Chinese partners have secured over 8 million US dollars and other valuable assets from the Chinese government and funding agencies. However due to the source of the funding, these funds cannot be spent outside China. Therefore, we are requesting critically needed support for the home initiative from the Johns Hopkins Yeung Center to keep the Sc2.0 project running and innovating at Johns Hopkins, and specifically to support a rich collaboration between Hopkins and top Chinese Universities.

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Education and Research Partnership in Environmental Engineering, Science and Management between the Nanjing University School of the Environment and Johns Hopkins University

Johns Hopkins Principal Investigator

Edward Bouwer, PhD

Abel Wolman Professor of Environmental
Engineering and Chair
Department of Geography and Environmental
Engineering
Whiting School of Engineering

Chinese Principal Investigator

Jun Bi, PhD

Dean and Professor
School of the Environment
Nanjing University

Abstract

The proposed program involves a partnership between Johns Hopkins University (JHU) faculty in the Department of Geography and Environmental Engineering and faculty in the School of the Environment at Nanjing University (NJU). The proposal is for JHU/NJU to initially cooperate on three related tasks within the area of environmental engineering, science and management. The first opportunity is collaborative research involving JHU/NJU faculty and students in the areas of water quality, emerging nanotechnology issues, and governance issues related to these topics. One outcome here is joint authorship on peer-reviewed publications with a first article comparing U.S. and China environmental governance, with a focus on water pollution. The second opportunity is curriculum development and joint teaching with an aim to produce course materials of general use to the JHU and NJU communities. An example is a new course that uses case studies of common interest, such as Lake Tai (Tai Hu) and Chesapeake Bay, as a means to integrate Chinese and U.S. perspectives. A final opportunity is a workshop to bring JHU and NJU faculty together in Nanjing to discuss research interests and to identify possible student exchanges. The “best practices” learned from the above activities will benefit other joint JHU programs with Chinese institutions.

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Feasibility Study for Collaboration on Entrepreneurship Programs with Nanjing University School of Business

Johns Hopkins Principal Investigator

Oksana Carlson
Executive Director
Global MBA and Executive Programs
Carey Business School

Chinese Principal Investigator

Shuming Zhao, PhD
Professor and Dean
Nanjing University School of Business

Abstract

This proposal outlines an inter-institutional Feasibility Study for Collaboration on Entrepreneurship programs between the Johns Hopkins Carey Business School (JHCBS) and Nanjing University School of Business (NUBS). The feasibility study is designed as a collaborative project between two institutions that will help to build the foundation for successful joint initiatives and academic and research programs.

The collaborative project involves faculty, staff and students who will be engaged to assess the structure, program content and financial resources required for an innovative program, the Entrepreneurship in Emerging Economies Program (EEEP). Aimed at enhancing the study and project opportunities for students in China and the U.S., the program would enable business students to collaborate, develop and present creative business plans under academic guidance.

To assess the resource needs and structure of this program, the feasibility study would engage a team from the Carey Business School working in collaboration with a team from the Nanjing University Business School. The proposal includes creation of two internship opportunities in summer 2011 to conduct the feasibility study and to evaluate the academic and market needs and resources required to organize and implement collaborative programs in entrepreneurship between JHCBS and NUBS.

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Collaborative Program between the Department of Physics & Astronomy, Johns Hopkins University and the National Laboratory of Solid State Microstructures, Nanjing University

Johns Hopkins Principal Investigator

Chia-Ling Chien, PhD

Jacob L. Hain Professor of Physics
Department of Physics and Astronomy
Krieger School of Arts and Sciences

Chinese Principal Investigator

Mu Wang, PhD

Cheung-Kong Professor of Condensed Matter
Physics
Director
National Laboratory of Solid State
Microstructures
Nanjing University

Abstract

We propose an initiative to expand and foster collaborations in the physical sciences between Nanjing University and Johns Hopkins University via a partnership between the National Laboratory of Solid State Microstructures at Nanjing University and the Department of Physics and Astronomy at Johns Hopkins. The initial focus of this partnership will be on collaborative research in condensed matter physics. We expect, however, that this initiative will lay the groundwork for broader future Johns Hopkins-Nanjing collaborations in the physical sciences and engineering in the area of materials research. We propose that both institutions contribute equally to funding this joint venture. We plan several modes of collaboration, focused on current research problems of mutual interest and involving interactions and reciprocal exchanges by faculty, postdocs and graduate students. We also anticipate significant involvement of JHU undergraduates in this venture. Our undergraduates already are important contributors to condensed matter physics research at JHU, and this program will provide an excellent opportunity to broaden their intellectual and cultural horizons.

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An Academic Partnership to Enhance Pediatric Injury Prevention

Johns Hopkins Principal Investigator

Andrea C. Gielen, PhD

Professor and Director

Johns Hopkins Center for Injury Research and
Policy

Bloomberg School of Public Health

Chinese Principal Investigator

Qian Gao, MD, PhD

Professor of Neuroscience

Dean of the Medical School

Nanjing University

Abstract

Injuries are a leading cause of death for young children in the U.S. and China. Child injuries have been reduced in the U.S. in part through improved access to information and safety products in pediatric health care settings. At the Johns Hopkins Bloomberg School of Public Health, we have developed a model program working in partnership with the Department of Pediatrics in both primary and emergency care settings. In China, the need for such services appears to be great.

We propose to address the need to reduce child injury in China by working in partnership with Nanjing University to develop new ways of incorporating injury prevention into pediatric health care settings. The proposed work directly addresses the grant program's goal of expanding academic partnership with Nanjing University by developing new research collaborations and training opportunities. This one year project would include face to face meetings, interviews with pediatric health care providers to learn about the current status of their child injury prevention efforts, as well as analysis of available child injury data. The deliverable from this work would be a comprehensive child injury prevention report and action plan for enhancing prevention services.

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Feasibility Study for Collaboration between Johns Hopkins M.A. in Museum Studies and the Nanjing Museum

Johns Hopkins Principal Investigator

Phyllis Hecht

Program Director
Advanced Academic Program
Krieger School of Arts & Sciences

Chinese Principal Investigator

Wentao Liu

Nanjing Museum
Nanjing

Abstract

The JHU Museum Studies Program of the Zanvyl Krieger School of Arts and Sciences, Advanced Academic Programs (AAP) is seeking a Yeung Center grant to expand research and collaboration opportunities for our students with educators and museum professionals in China. The outcome of the proposal will lead to 1) a model collaborative educational program that can be replicated in other museums in China; 2) networking opportunities and mutual learning experiences between U.S. and Chinese educators, museum professionals, and students; 3) a prototype of a web-based resource, including audio, slide, or video interviews with museum professionals from U.S. and Chinese museums that will benefit a worldwide community; and 4) the initiation of the first compilation of a bibliography in English of Chinese-language articles about the museum field in China. These outcomes will foster dialogue and exchange of ideas in the museum community and will be a significant contribution to the field. They will also bring recognition to Johns Hopkins University and AAP's Museum Studies Program as leaders in the field of museum collaboration with China.

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Johns Hopkins-Nanjing Exchange Program in Statistical and Data Sciences

Johns Hopkins Principal Investigator

Hongkai Ji, PhD

Assistant Professor
Department of Biostatistics
Bloomberg School of Public Health

Chinese Principal Investigator

Liwei Zhang, PhD

Associate Professor, Deputy Director
Office of International Cooperation and
Exchanges
Nanjing University

Abstract

We propose to establish the Johns Hopkins (JHU) – Nanjing University (NJU) exchange program in statistical and data sciences. The JHU Department of Biostatistics will partner with the NJU International College, Department of Mathematics, Department of Computer Science, School of Physics, and School of Life Science to initiate collaborations in research and training in statistics and related disciplines in which discoveries are closely linked to analyses of large datasets and their uncertainties. The proposal perfectly aligns with the Yeung Center’s mission of “Expansion of Academic Partnerships with Nanjing University”. In the first year, the initiative contains two exchange components. First, JHU faculty and students will visit NJU in 2011 summer to establish a training program in biostatistics, explore collaborative research opportunities in China, and host a recruiting event. Second, NJU faculty and students will be invited to visit JHU Department of Biostatistics to conduct collaborative research for 6-9 months.

With multiple JHU and NJU departments involved in these bi-directional exchanges, the initiative aims to establish connections among leading scholars and students in US and China, and promote new cross-institutional and interdisciplinary collaborations, particularly those in the fields of statistical and data sciences that currently do not exist between the two universities.

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Hopkins Scholars at the Hopkins-Nanjing Center

Johns Hopkins Principal Investigator

Amir Pasic, PhD

Acting Executive Director
Associate Dean for Development and Strategic
Planning
Nitze School of Advanced International Studies

Chinese Principal Investigator

Huang Chengfeng, PhD

Chinese Co-Director
The Hopkins-Nanjing Center

Abstract

The SAIS Foreign Policy Institute proposes to fund two visiting Hopkins Scholars to the Hopkins-Nanjing Center. This would enable the JHU-side of the Center to create a pipeline for future adjunct faculty, allow Hopkins faculty from the U.S. to conduct research at the Center and support bringing prominent scholars in a diversity of fields to become acquainted with the Center and its students.

Scholars would draw principally from the world of academia and conduct research at the Hopkins-Nanjing Center for a semester. Scholars could bring a range of research interests to the Hopkins-Nanjing Center, including such topics as contemporary political, economic, social, environmental, and health issues in or related to China.

The Hopkins Scholars at the Hopkins-Nanjing Center may also serve as a springboard to approach foundations in Asia and the U.S. to fund individual faculty members returning to the Center to conduct further research, demonstrating to potential donors the ability of the Hopkins-Nanjing Center's unique environment to nurture innovative partnerships and collaborative research.

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Hopkins-Nanjing Center Minorities Studies Program

Johns Hopkins Principal Investigator

Thomas Simon, PhD

Resident Professor, International Law
Hopkins-Nanjing Center

Chinese Principal Investigator

Fan Ke, PhD

Professor of Anthropology
Nanjing University

Abstract

Nanjing University (NJU) and Johns Hopkins University (JHU), especially the Hopkins-Nanjing Center (HNC), have more than a critical mass of faculty expertise and student interest to begin seriously focusing on minority issues in China. Professors Fan Ke (NJU and HNC, anthropology), Hua Tao (NJU and HNC, history), and Thomas Simon (JHU and HNC, law) all have international reputations for their work on minorities. Their interests overlap considerably. All three have worked on the intersection between religious identity (particularly Muslim identity) and ethnicity. This proposal for an innovative new January Intersession course represents a unique collaborative effort among Chinese and American faculty and students. Finally, the establishment of a Minorities Study Program would create opportunities for faculty and students from NJU, JHU, and HNC, to devote more time and energy to the study of minorities, particularly the national groups in China.

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The Hopkins-Nanjing Center Law Studies Initiative

Johns Hopkins Principal Investigator

Thomas Simon, PhD

Resident Professor, International Law
Hopkins-Nanjing Center

Chinese Principal Investigator

Feng Chuan

Assistant Professor
School of Law
Nanjing University

Abstract

The overall purpose of this proposal is to establish a series of law programs at the Hopkins-Nanjing Center. As far as we know, the Center houses the only law programs at JHU. This initiative began after President Daniels's visit to the Center. Two carefully designed initiatives (trial advocacy and comparative law), centered on new courses, will establish a base to begin building law programs. These initiatives begin with new courses, but their adoption will have considerable impact far beyond the classroom. A new, co-taught course in Trial Advocacy fills a critical need to address deficiencies in oral as well as written communication skills of Hopkins-Nanjing students. We shall establish a number of oral competitions as well, including a speaking and moot court contests, which we hope to conduct on an international scale. In addition, the Trial Advocacy course will serve as a skills training for our highly successful Jessup moot court team. (Note: Only the moot court team received a Yeung Center grant.)

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Hopkins-in-Nanjing Undergraduate Study Abroad Program

Johns Hopkins Principal Investigator

Kellee Tsai, PhD

Vice Dean of Humanities
Department of Political Science
Krieger School of Arts and Sciences

Chinese Principal Investigator

Aimin Cheng, PhD

Dean and Professor
Institute for International Students
Nanjing University

Abstract

Interest in Chinese language and China studies is booming among undergraduates at the Krieger School of Arts and Sciences (KSAS) and Whiting School of Engineering (WSE). Many of our students come to Hopkins believing that they have access to the world-renowned Hopkins-Nanjing Center (HNC), yet HNC trains only post-baccalaureate and MA students. The East Asian Studies Program and Office of Study Abroad at KSAS thus propose to establish an undergraduate study abroad program in collaboration with Nanjing University's Institute for International Students (IIS), which is adjacent to the HNC within the broader university campus. Tailored to the needs of Johns Hopkins undergraduates, the academic content of the proposed "Hopkins-in-Nanjing" study abroad program includes Chinese language training and content courses in China studies, one of which may be taught in a HNC classroom by a faculty member hired and vetted by KSAS. Given the modest size of KSAS faculty in China Studies and demand by undergraduates to study in China, establishing a study-abroad program in Nanjing will be welcomed by our students, bolster our connection to colleagues at HNC/SAIS, extend the university's partnership with Nanjing University—and ultimately, enhance Johns Hopkins' profile in China studies.