Postdoctoral research positions are now available to study the impact of manipulating the estrogen signaling axis on immune function and how hormonal status impacts breast tumor immunity. This translational project will provide incumbents with the opportunity to train with a multidisciplinary team of scientists in a new and exciting area of cancer therapeutics. Successful applicants will have training in immunology, hormone action, cancer biology or genetics. Motivated individuals with a recent Ph.D., M.D. or M.D./Ph.D. should send a curriculum vitae, a brief description of research interests and the names of three references to: Dr. Donald McDonnell, Department of Pharmacology and Cancer Biology, Duke University School of Medicine, Durham NC 27710. E-mail: Trena.martelon@duke.edu

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Innovation and Services — The Development of Information Science at Peking University

The discipline of Information Science at Peking University (PKU) covers two majors: Electronics Engineering (EE) and Computer Science (CS). The EE major, founded in the 1950s, covers microelectronics and solid-state electronics, physical electronics, circuits and systems, electromagnetic fields and microwaves, quantum electronics, communication and information systems, etc. The CS major, founded in 1978, focuses on computer architecture, software, artificial intelligence, computational linguistics and digital media, etc.

While developing state-of-the-art mechanisms for cultivating top talents in information science, we are also dedicated to applying cutting-edge technologies to industrial and social development. Our current research work focuses on hardware, software and system technology for big data, cloud computing, artificial intelligence, internet of things, new generation communication, intelligent integrated microsystem and quantum computing, etc. We also encourage cross-disciplinary research, and have established multiple research centers to facilitate the integration and development of related disciplines, e.g., the Research Center for Medical-Information Science, the Research Center for Computational Social Science, and the Research Center for Brain-inspired Computing.

In the field of Microelectronics and Integrated Circuit (IC), as far back as 1975, the researchers in the Institute of Microelectronics, led by Prof. Yangyu-an Wang, successfully developed the first 1024-bit n-channel silicon-gate MOS Dynamic Random Access Memory (DRAM) in China. More recently, Prof. Ru Huang and her team have been focusing on the low-power semiconductor devices with new structures/materials/mechanisms and the key technologies of brain-inspired computing chips, aiming at pushing IC technology to its power limit and expanding its functionality in the Post-Moore Era. In particular, they have proposed and fabricated novel nanoscale multi-gate transistors and steep-slope ultralow-power transistors with record figures-of-merit (FoMs), as well as new neuromorphic devices and array architectures which can greatly reduce the energy consumption of artificial intelligence (AI) chips. In the past 11 years, they have published 45 papers at the IEEE International Electron Devices Meeting (IEDM), the top-tier conference in the field of microelectronic devices. The relevant research results have been transferred to or applied in leading IC companies, such as SMIC, Huawei HiSilicon, Cadence, and Synopsys, etc.

In the field of software, Peking University has always been the pioneer and leader of fundamental research as well as technology transfer in China. The team led by Prof. Fuqing Yang developed several operating systems for computers made in China before 1980s, and a series of Integrated Development Environments (IDEs) for structured, object-oriented and component-based software in 1990s. The team led by Prof. Hong Mei proposed a new software paradigm, Internetware, to describe the new and even unconventional properties of software in the Internet Age. Internetware became the flagship of software research in China in the 2010s, revealing and addressing many interesting and valuable issues. For example, Prof. Mei’s team invented an automated approach to enabling the efficient interoperability between information systems, sharing the data and functionalities of an information monolith to others without the source code, data schema or back-end permission, increasing the efficiency of interoperability by hundreds of times. This approach and its operating platform have been transferred to Digital China, Lenovo, AliCloud, and iFLYTECH, etc. with the biggest information technology patent royalty (15 million US dollars) in Chinese universities. This new interoperability technology has been widely used in the development of software for data sharing, big data application, smart cities and system integration in China. With the vision of Internetware, the team will focus on intelligent software development, big data and social-cyber-physical computing in the next decade.

In the field of Chinese information processing, Prof. Wang Xuan led the revolution of Chinese character storage, display and laser phototypesetting technologies as early as the 1970s. Since the 1990s, Peking University has established the unique Chinese language model and knowledge bases. These achievements enable Chinese people to continue using and developing Chinese languages and scripts in the information era.

In the field of intelligent science, Prof. Qingyun Shi developed the highest performance fingerprinting system in 1980s. In the last 20 years, Prof. Wen Gao steered the development of national video coding standards in China, the IEEE standard and the ISO / IEC standard on visual feature coding, which have been widely deployed in High-definition Television broadcasting in China and other countries. As chairman of Artificial Intelligence Industry Technology Innovation Strategic Alliance (AITISA) approved by the Ministry of Science and Technology of China (MOST), Prof. Gao emphasized the leading role of PKU in establishing an open source AI platform with focus on the new intelligent computing architecture and brain-like computers, so as to promote the transformation and upgrading of human society from the information era to the intelligence era.

PKU Information Science will continue promoting the multi-disciplinary interaction and integration within the university, while contributing to information science research and industry in China and around the world at multiple levels, including theory, technology, system and industrial services. Prof. Ru Huang, Dean of EECS School, warmly welcomes top researchers from all over the world to join or participate in our promising platform at Peking University. Feel free to contact us: dean.eecs@pku.edu.cn or visit http://eecs.pku.edu.cn/EN/.
The Institute of Computer Science and Technology at Peking University

The Institute of Computer Science and Technology (ICST) was established in 1983 by professor WANG Xuan, the winner of the Top National Science and Technology Award in 2001.

ICST has made significant contributions to computer science and technologies by advancing applications in printing and media industries. Specifically, the Laser Typesetting System, adopted by more than eighty percent of Chinese newspaper publishers, has led a nationwide revolution; the Newspaper Digital Asset Management System has created a paperless working environment for the media industry; the Digital Rights Management System has promoted the popularity of e-books; and the Digital Broadcast Control System has made digital TV automation possible.

Expanding the scope from digital to intelligent media, ICST is dedicated to the research of media intelligence. The important progress achieved recently includes cross-modal content recognition, machine writing, and automatic generation of Chinese fonts.

Prof. Xiaojun Wan specializes in natural language generation and machine writing. His team invented a series of text summarization methods to automatically generate news reports. Their innovative technologies have been transferred into several online AI reporters (e.g., Xiaomingbot and XiaoNan) in various domains, including sports and lifestyles. For instance, Xiaomingbot published more than ten thousand news articles for Rio 2016, Football League and NBA events.

Prof. Yuxin Peng, has led his team to achieve several important breakthroughs on cross-modal content analysis and recognition. They proposed spatial topology based attention learning, which for the first time solved the difficult problem of fine-grained image classification without object annotation. They also proposed collaborative learning of spatial-temporal attention to achieve the video recognition accuracy of 95.7%, and won first place six times in video instance search of International evaluation campaign TRECVID. The graph regularized shared semantic space projection they proposed, for the first time broke through cross-modal retrieval up to 5 modal types including image, video, audio, text and 3D model. Their research achievements have been successfully applied to over 100 organizations, and gained first prize of Beijing Science and Technology Award in 2016.

The group headed by Professor Zhouhui Lian, and previously headed by Professor Jianguo Xiao, has been working for decades to advance the design and production of Chinese fonts. Adopting state-of-the-art CG/AI/CV techniques, they have proposed a series of solutions significantly improving the designing/producing efficiency of high-quality printing/compressed/colorful Chinese fonts. The group was also the first to make possible the automatic generation of practical handwriting fonts with arbitrarily large numbers of Chinese characters. Their techniques have been authorized and transferred into commercial products for hundreds of millions of users, producing great commercial benefits and significant social impact.

The Institute welcomes applications from top researchers and, in particular, young talents from around the world. Feel free to contact us:
Website: http://www.icst.pku.edu.cn/
Email: icst748@pku.edu.cn
Address: No. 128 Zhongguancun North Street, Haidian District, Beijing, 100871, P. R. China

Intelligent Control of Networked Dynamical Systems at Peking University

With the dramatic development of multiple robot systems, intelligent traffic systems, Internet of Things (IoT), smart grids, and mobile sensor networks in the last decade, classic control theory is no longer adequate. A new design theory and control methods are needed to deal with such distributed systems, each of which is typically composed of many subsystems connected as a large network.

Long Wang, a Cheung Kong Chair Professor of Dynamics and Control, has spearheaded a series of pioneering programs by using Evolutionary Game Theory (EGT), which is powerful in solving the competing interactions among different agents. Some fundamental studies include when the popular embedded Markov chain method is valid, the intrinsic differences between the two widely used evolutionary rules, and what is the asymptotic behavior of mobile agents. Professor Wang and his colleagues have found a simple yet effective control protocol to make all agents coordinate with each other, which has proven to be efficient and energy-saving over a wide range of network structures. In addition, they have also been successful in studying the emergent mechanism of human intelligent behaviors, which is fundamental to artificial intelligence. These novel and insightful theoretical results have successfully found their applications in the coordination and control of multiple mobile robots.

Feel free to contact us: Center for Systems and Control, Peking University.
Website: http://www.mech.pku.edu.cn/robot/index.htm
Email: longwang@pku.edu.cn
Faculty Positions in Biological Physics and Systems Biology

The Center for Quantitative Biology (CQB) at Peking University (PKU) invites applications for faculty positions at all ranks. We seek for creative individuals in all areas of biological physics and quantitative systems biology, broadly defined.

CQB (http://cqb.pku.edu.cn) is dedicated to research and education at the interface between the physical and biological sciences. Current research areas include physical biology, mathematical biology, systems biology, synthetic biology and computational biology.

Applications are welcome all year round. For qualified applicants, PKU can sponsor their applications to the national (Young) Thousand Talents Program. Application materials (cover letter, CV, summary of research achievements and future research plan, all in a single PDF file) and three letters of reference should be sent to Ms. Wei Xiao (gsmkyb@pku.edu.cn).

Tianjin Normal University International Elites’ Forum

A sincere invitation to talents from all over the world to join us

Tianjin Normal University invites applications for 100 Positions in various fields of study for top-tier international scholars and young intellectuals. The positions are specifically designed for individuals who aim to conduct high-quality research in fields such as Education, Management, Economics, Social Sciences, Science, Engineering, Medicine, and more. The aim is to foster the development of scientific disciplines, thus enriching the academic environment in Tianjin. The talent application is open to all scholars from the global community.

The application period is from April 1, 2018 to May 31, 2018. Successful applicants will receive an invitation from the university.

Contact person:
Ma Ge Yanxia
Tel: 17302237889

Mr. Yang Bin
Tel: 15822871057

Tianjin Normal University International Elites’ Forum

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May 27th 08:00-20:00 [Beijing Time] http://www.edu.cn/cv

Participation Approach
Please submit your resume to zhaojiai@eol.cn
Alexey Amunts chose to start his lab at SciLifeLab because of the possibilities he saw in the research environment.

Alexey Amunts uses cryo-EM to visualize macromolecules at atomic resolution. His group explores macromolecules that play key roles in fundamental and medically relevant cellular processes, such as the mechanism of protein synthesis in mitochondria.

“The cryo-EM method has made it possible to reveal complex cellular systems that we lacked the tools to investigate before, and there is a whole new nanoscale universe waiting to be explored, so it is a very exciting time to be in this field.”

He started out by doing his PhD at Tel Aviv University in Israel, where he used X-ray crystallography to visualise plant photosynthetic complexes. After that he moved on to a postdoc position at the MRC Laboratory of Molecular Biology in Cambridge, UK, to investigate ribosomes using cryo-EM.

When Alexey Amunts got the opportunity to set up a cryo-EM lab at SciLifeLab, he took it. One of the reasons was the many strong advantages that he sees with the Swedish research environment.

“The grant schemes in Sweden have a tradition of supporting ambitious initiatives, those where you don't expect the results to start appearing within 2-3 years. This is particularly important, because it allows to navigate a research group through difficult periods. This consideration is crucial when one is looking for a place to set up a lab because finding a productive direction takes time.”

His lab is located close to the SciLifeLab cryo-EM, mass spectrometry, and drug discovery facilities.

“There were three main things that made SciLifeLab so attractive to me: the infrastructure support, the network of collaborations, and most importantly the wide spectrum of young talent.”

When Alexey Amunts reflects on the Fellows Program he highlights it’s snowball effects.

“SciLifeLab recruits fellows from leading institutions abroad and gives them an unprecedented degree of freedom as well as tools to create. But what I think is even more important is that by establishing new technologies the Fellows attract bright postdocs and PhD students that otherwise would not consider coming here. This makes not only a major contribution to the current research environment, but will also have a long-term effect on the Swedish science and society.”

His advice to researchers who are about to become independent investigators is to ask big and important questions that will take them into uncharted territories.

“Even if pursuing those questions might be risky, you will get an opportunity to expose new worlds with even more interesting questions, and eventually have better chances to make a unique contribution to science.”

SciLifeLab – a national resource

SciLifeLab is a Swedish research center within molecular biosciences with focus on health and environment. It is also a national resource with the mission to develop, use and provide advanced technologies. The center infrastructure encompasses a multitude of biomolecular technologies and bioinformatics services.

www.scilifelab.se
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ASSOCIATE PROFESSOR/PROFESSOR AND VICE CHAIR, DEPARTMENT OF BASIC MEDICAL SCIENCES

The Western University of Health Sciences (WesternU), College of Osteopathic Medicine of the Pacific (COMP), invites applicants for the position of Associate Professor/Professor and Vice Chair of the Department of Basic Medical Sciences (BMS) to lead the development and operation of the Northwest campus in Lebanon, Oregon. The Vice Chair is a vital member of the College’s leadership team. The candidate will be expected to provide visionary leadership to the department in its research and educational missions. Principal responsibilities will be: 1) mentorship of faculty, 2) participate in the development and delivery of pre-clinical medical education, 3) development of departmental research programs and integration of research and education, and 4) strategic planning to advance the Department in line with the mission of the Department, College and University. Successful candidates will have an internationally-recognized program of research, significant history of extramural funding, administrative and educational experience, and strong leadership skills. Salary and rank will be commensurate with qualifications and experience. The successful candidate will have expertise in a field of biomedical sciences. Interested individuals should submit a curriculum vitae, cover letter, a two-page outline of their scholarly work and teaching philosophy and apply to posting number A00259 on http://apprkr.com/1199686

Inquiries can be addressed to the Chair of Search Committee: Dr. Michelle Steinauer, Tel #: 541-259-0233; e-mail: msteinauer@westernu.edu

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Smithsonian National Museum of Natural History
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The National Museum of Natural History is dedicated to understanding and explaining the natural world and is the most visited natural history museum in the world. With over 145 million specimens and objects, the Museum’s collections represent over 90% of the holdings of the Smithsonian. These collections, and the work of the scientific staff, form the foundation for the Museum’s extensive public programs, and include exhibitions, education, and outreach programs.

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