Call

PhD /Graduate fellowship program

Research Methods in Personalized Health Informatics

August 13 - August 17th

University of California, Davis

Program structure

This course is oriented to advanced graduate students seeking a comprehensive introduction to methods of design, assessment and implementation in personalized health informatics The program will focus on the current and next generation of technologies, research design methodologies, health communities and models of digital health care, and will have interdisciplinary faculty and students from policy to engineering. Learning goals for students include:

- Advanced study in design, testing, assessment and implementation of personalized informatics and patient-centered technology for patients and communities
- Collaborative network development with sudents and international researchers within telehealth and personalized health informatics

Program thematic areas

- Usability, design thinking and participatory design
- Human centered interface design and evaluation methods
- Data acquisition methods for instrument and self-reported health data
- Development of digital phenotyping for health monitoring
- Data analytics of large scale mobile and clinical data
- Assessment of the value of digital health care interventions
- Ethical, legal and social issues in research and dissemination of personal health technology

Academic Credit

- University of California students will receive 1-3 units of graduate credit with their home department or school
- Danish and Scandinavian students will receive 5 ECTS points

Student completing this course will have unique and advanced skills and potential US and international research collaborations.

Dates and Locations

The program will be held at Davis and Sacramento locations of the University of California, Davis, August 13th-17th 2018. Students will participate in an intensive 5-day program with peer students, researchers and industry leaders from Europe and the US.

Program costs and awards

Successful international awardees in this program will receive accommodations as well as course meals and activities (US $1200).

Program eligibility

Prospective students must be currently enrolled in a graduate program (either research-focused masters or PhD) or hold a 1st or 2nd year post-doctoral position in the following schools and colleges:

<u>Universities in Denmark and Scandinavia</u>

<u>UC Davis</u>
- School of Medicine in public health, health informatics, clinical and translational science
- School of Nursing
- College of Engineering in computer science, biomedical engineering
- College of Letters and Science in science and technology studies

<u>UC Berkeley</u>
- School of Information in information and data science or information management and systems
- College of Engineering in computer science

Application Requirements

Applicants should submit by **5PM April 25th** the following to Birthe Irene Dinesen, bid@hst.aau.dk with the subject line: Graduate Exchange Program. No late submissions will be accepted.

1. Two-page proposal (US Letter; 8.5 x 11 inch, no less than 0.5 inch margins, no less than 11 point font) that includes:
   A. Name, academic degree(s), university affiliation, and location (city, state, and country) of applicant
   B. Overview of interests related to personalized health research in digital health, informatics and person-centered technology. This section should be structured as an abstract for a paper regarding a research topic you intend to pursue. Include the following sections:
      o Introduction – A short background and objective(s) of the proposal
      o Methods – Study design, setting (if appropriate), patients or participants (if appropriate), interventions (if appropriate), and main outcome measures
      o Results – Key findings or anticipated findings
      o Discussion – Key anticipated implications related to the foundational advancement or biomedical application of the work
      o Optional illustrations (figures or tables must fit within the 2-page limit)
      o References (must fit within the 2-page limit)
   C. What do you hope to gain from participating in this fellowship and international exchange program, personally and professionally?
   D. What do you feel you can contribute to this fellowship and international exchange program, personally and professionally?
2. One-page signed advisor letter of support for applying to this program

3. Maximum five-page NIH compatible biosketch that clearly states current and prior research experience, including publications, presentations or other contributions – (see Formatting Guidelines – Biosketch at https://archives.nih.gov/asites/grants/07-19-2016/grants/forms/biosketch-sample-Forms-D.docx)

Fellowship Process and Requirements
- Fellows will be notified of acceptance by May 1, 2018
- Accepted fellows must attend the entire program Aug. 13 – 17th, 2018
- Accepted fellows will participate in a pre-workshop to be scheduled late July/Aug of 2018 to refine their proposals and develop a five-page conference paper on their topic.

For questions please contact the faculty directors.

Chairs
- Associate Professor Nick Anderson, Department of Public Health Sciences, University of California Davis, and University of California-CITRIS Health
- Professor Birthe Dinesen, SMI, Department of Health Science and Technology, Head of Laboratory of Welfare Technologies – Telehealth & Telerehabilitation, Aalborg University
- Assistant Professor Katherine Kim, University of California Davis, and University of California-CITRIS

Lecturer
- Associate Professor Helle Spindler, Department of Psychology, Aarhus University,
- Associate Professor Kristian Kidholm CIMT, Odense University Hospital
- Professor Jes Broeng, Skylab, Department of Photonics Engineering, Danish Technical University
- Professor Lars Dittman, Department of Photonics Engineering, Danish Technical University
- Mark Yarborough, Bioethics Professor, UC Davis
- Sheryl Katz, Professor, UC Davis School of Nursing
- David Lindeman, Director, CITRIS Health

Facts about TTRN
The Transatlantic Telehealth Research Network (TTRN) is dedicated to developing cutting-edge research and innovation within telehealth. The research is interdisciplinary (medicine, engineering, nursing, organizational, economic, policy); and focuses on developing new diagnostic, preventive care and treatment methods/technologies for patients in their own homes utilizing telehealth. Problem-based, user-driven innovation is a key issue in the international and interdisciplinary TTRN.

Partners in the TTRN
Citris, UC Berkeley; Betty Irene Moore Nursing School; CHT, UC Davis Health; Cleveland Clinic; Connected Health Innovation, Harvard Medical School, Boston; Center for Innovative Medical Technologies (CIMT), Odense University Hospital & Southern Danish University; Department of Photonics Engineering, Danish Technical University; Department of Psychology, Aarhus University and Department of Health Science and Technology, Aalborg University.

Vision paper on Telehealth
Within the TTRN we have published the paper: "Personalized telehealth in the future: a global research agenda" by Dinesen, Birthe Irene; Nonnecke, Brandie; Lindeman, David; Toft, Egon; Kidholm, Kristian; Jethwani, Kamal; Young, Heather M.; Spindler, Helle; Østergaard, Claus Ugilt; Southard, Jeffrey A.; Gutierrez, Mario; Anderson, Nick; Albert, Nancy M.; Han, Jay J.; Nesbitt, Thomas. Journal of Medical Internet Research, Vol. 18, Nr. 3, e53, 2016. Can be downloaded here: https://www.jmir.org/2016/3/e53/

Learn more about TTRN
http://citris-uc.org/telehealth/project/transatlantic-telehealth-research-network/

PhD/ Graduate fellowship program
Every year there is a course alternately between Denmark and the USA. In 2017 we had the first course at Aalborg University in Denmark with 26 participants from different disciplines.

If you have any questions please contact:

Birthe Dinesen, Professor, PhD & Head of Laboratory for Welfare Technologies - Telehealth & Telerehabilitation,

SMI, Department of Health Science and Technology, Aalborg University,

Email: bid@hst.aau.dk