# Yong K. Choi, PhD, MPH

## Education
- **Ph.D., Biomedical and Health Informatics**, December 2018
  University of Washington School of Medicine, Seattle WA
  Dissertation title: Examining the Feasibility of Internet of Things Technologies to Support Aging-in-Place
  Dissertation Advisor: Dr. George Demiris and Dr. Hilaire J Thompson

- **M.P.H, Health Policy & Management**, May 2014
  Texas A&M Health Science Center, College Station TX

- **B.S., Computer Science**, May 2011
  Texas A&M University, College Station TX

## Academic Experience
- **Post-Doctoral Fellow**, Jan 2019 – current
  University of California Davis, Betty Irene Moore School of Nursing
  Supervisor: Dr. Katherine Kim

## Publications
### Peer-Reviewed Journal Articles:
10  **Choi YK,** Demiris G, Lin SY, Iribarren SJ, Landis CA, Thompson HJ, McCurry SM, Heitkemper MM, Ward TM. Smartphone applications to support sleep self-management: review and evaluation. Journal of Clinical Sleep Medicine. 2018 Oct 15;14(10):1783-90.

9   Turner AM, **Choi YK**, Dew K, Tsai M, Wu S, Smith D, Meischke H. How useful are translation technologies for emergency response communication?. JMIR Public Health and Surveillance. Accepted (Pre-Print).

8   Dew KN, Turner AM, **Choi YK**, Bosold A, Kirchhoff K. Development of machine translation technology for assisting health communication: A systematic review. Journal of biomedical informatics. 2018 Jul 19.

7   Petrescu-Prahova M, Osterhage K, Painter I, **Choi YK,** Turner AM. Older adult health and personal health information management support networks. Innovation in Aging. Under Review.

6   Sakaguchi-Tang DK, Bosold AL, **Choi YK**, Turner AM. Patient Portal Use and Experience Among Older Adults: Systematic Review. JMIR Medical Informatics. 2017 Oct;5(4).

5   Kneale L, Mikles S, **Choi YK**, Thompson H, Demiris G. Using scenarios and personas to enhance the effectiveness of heuristic usability evaluations for older adults and their care team. Journal of Biomedical Informatics. 2017 Sep 1;73:43-50.

4   Backonja U, Nai-Ching C, **Choi YK**, Hall AK, Le T, Kang Y, Demiris G. Visualization approaches to support healthy aging: A systematic review. Journal of Innovation in Health Informatics. 2016 Oct 10;23(3):860.

3   Bock C, Demiris G, **Choi YK**, Le T, Thompson HJ, Samuel A, Huang D. Engaging older adults in the visualization of sensor data facilitated by an open platform for connected devices. Technology and Health Care. 2016 Jan 1;24(4):541-50.

2   Kneale L, **Choi YK**, Demiris G. Assessing commercially available personal health records for home health. Applied Clinical Informatics. 2016 Feb;7(02):355-67.

1   Ojinnaka CO, **Choi YK**, Kum HC, Bolin JN. Predictors of colorectal cancer screening: does rurality play a role?. The Journal of Rural Health. 2015 Jul 1;31(3):254-68.

### Peer-Reviewed Publications in Conference Proceedings:
2   **Choi YK**, Kirchhoff K, Turner AM. Medical Text Simplification by Medical Trainees: A Feasibility Study. 2016 IEEE International Conference on Healthcare Informatics (ICHI). Chicago, IL, 2016, pp. 334-340. doi: 10.1109/ICHI.2016.61

# Yong K. Choi, PhD, MPH

1      Kneale L, **Choi YK**, Mikles S, Thompson H, Demiris G. Evaluating Publicly Available Personal Health Records for Home Health. Paper presented at the National Library of Medicine Training Conference, 27-28 June 2016; Columbus, OH.

**Peer-Reviewed Conference Abstracts:**

5      **Choi YK**, Demiris G, Oliver DP, Washington KT. Challenges faced by the oldest old in the caregiving role: observations from the hospice setting. Oral Presentation at Gerontological Society of America (GSA) Annual Symposium. 17 November 2016; New Orleans, LA.

4      **Choi YK**, Turner AM, Kirchhoff K. Crowdsourced Evaluation of Medical Texts Simplified by Medical Trainees. Poster presented at American Medical Informatics Association (AMIA) Symposium. 15 November 2016; Chicago, IL.

3      **Choi YK**, Demiris G, Samuel A, Huang D. A Feasibility Study Examining Older Adult Needs within Smart Home Sensor Deployments. Oral Presentation at the Home Healthcare and Hospice Information Technology (H3IT) Conference. 11 November 2016; Chicago, IL.

2      **Choi YK**, Demiris G, Arjmand S, Danny H. Design guidelines for effective data visualization of sensor monitoring data. Poster presented at American Medical Informatics Association (AMIA) Symposium. 16 November 2015; San Francisco, CA.

1      Wang LL, **Choi YK.** Development of a discharge ontology to support postanesthesia discharge decision making. Poster presented at International Conference on Biomedical Ontology. July 2015; Lisbon, Portugal.

**Peer reviewed Tutorials/Workshops/Panels:**

1      Ozkaynak M, Valdez R, Demiris G, Novak L, **Choi YK**, Weir C. Innovation in Workflow Methods for Consumer Health Informatics. Panel presented at the American Medical Informatics Association (AMIA) 2017 Annual Symposium. 6 November 2017; Washington DC.

## Invited Talks

3      **Choi YK.** Smartphone Applications to Support Sleep Self-Management: Review and Evaluation. Oral presentation at workshop "Social Media for Self-management in Patients with Chronic Conditions" Center for Innovation in Sleep Self Management & the de Tornyay Center for Healthy Aging, University of Washington. 20 April 2018; Seattle WA.

2      **Choi YK.** Usability Testing using a portable usability lab. Oral presentation at the Aging and Informatics seminar series School of Nursing, University of Washington. 2 February 2018; Seattle, WA.

1      **Choi YK.** Visualizing Smart Home Sensor Data for Older Adults. Virtual lecture at the Informatics Seminar of the Master's program at Universidad Peruana Cayetano Heredia (UPCH) in Lima-Peru. 30 June 2017.

## Grants

Internal Funding: School of Nursing-Research and Intramural Funding Program Review (RIFP) and de Tornyay Center on Aging Feasibility of Internet of Things Technologies to Support Aging ($15,000)
4/1/2017-7/31/2018    Grant proposal co-written with PI Dr. George Demiris

## Awards and Honors

**GSA 2018 BSS Travel Award,** December 2018, The Gerontological Society of America
**ICHI 2017 Travel Award,** August 2017, International Conference on Healthcare Informatics
**UWRA Fellowship in Aging,** March 2017, University of Washington Retirement Association
**ICHI 2016 Travel Award,** October 2016, International Conference on Healthcare Informatics
**GSFEI Graduate Student Travel Award,** September 2015, University of Washington
**PhD Scholarship**, July 2015, Washington State Health Information Management and Systems Society
**Departmental Scholarship**, 2013-2014, School of Public Health, Texas A&M Health Science Center

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## Research Experiences

**The Center for Innovation in Sleep Self-Management (CISSM)**
Role: Graduate Research Assistant                                                                                            2017-present
Supervisor: Dr. George Demiris, Dr. Hilaire Thompson
Responsibilities: Informatics consultations for CISSM researchers, literature reviews, manuscript preparation and publication

**Studying Older Adults & Researching Information Needs and Goals (SOARING)**
Role: Graduate Research Assistant                                                                                            2015-2016
Lead: Dr. Anne M. Turner
Responsibilities: Data management and analysis, literature reviews, manuscript preparation

**Transforming Community-Based Elder Care through Heterogeneous Activity Sensing Analytics**
Role: Graduate Research Assistant                                                                                            2014-2015
Lead: Dr. George Demiris
Responsibilities: IRB preparation, manage smart home sensor deployment, recruit and interview subjects, data management and analysis, literature reviews

**Home-based Environmental and Assisted Living Technologies for Healthy Elders (HEALTH-E)**
Role: Team Member                                                                                            2014-present
Lead: Dr. George Demiris, Dr. Hilaire Thompson
Responsibilities: IRB preparation, recruit and interview subjects, data management and analysis, conducting literature reviews, manuscript preparation and publication

## Teaching Experiences

**Teaching Assistant**, Spring 2014, Texas A&M Health Science Center
Course Title: PHPM 672 Data Science for Health Services Research

## Technical Skills

- Programming languages: Java, C, C++, C#, Python, SAS, STATA, R
- Tools: Microsoft Visual Studio, Eclipse

## Department/University Service

2016-2017 Graduate Admissions Committee, Biomedical and Health Informatics, University of Washington

## Journal/ Conference Reviews

International Journal of Medical Informatics (2015-2017)
American Medical Informatics Association (2016-2017)

## Professional Affiliations

Student Member, American Medical Informatics Association (2014-present)
Student Member, The Gerontological Society of America (2016-present)
Student Member, Healthcare Information and Management Systems Society (2012-present)
Student Member, Medical Group Management Association, (2012-2014)