

CHAR FACULTY NEWSLETTER | Summer 2017

Director's Corner
Carolyn Aldwin
Jo Anne Leonard Endowed Director



It's been a busy year for all of us here at CHAR! We started off in Fall Quarter with a Conference on Healthy Aging Communities, jointly sponsored with the Governor's Commission on Senior Services and AARP, as well as the **College of Liberal Arts**.

About 400 people attended this conference. We brought together legislators, agencies, OSU faculty, and the public to help set the aging public policy agenda for Oregon. Many thanks to **Philipp Kneis, Robyn Pease, Carolyn Mendez-Luck, David Rothwell, and Karen Hooker** for their work on this project!

CHAR sponsored two colloquia and CHAR faculty were very active in OSU's Gerontology Conference this year. **Dr. Andrew Sixsmith** from the Simon Fraser University Centre for Gerontology delivered a talk on aging and technology, which was jointly by the College of Public Health & Human Sciences and the College of Engineering. CHAR also sponsored a college-wide colloquium by **Dr. Shevaun Neupert** of North Carolina State University on daily well-being in context. Thanks to **Norm Horde, Vicki Schmall, Margaret Manoogian, and Carolyn Aldwin** for participating in this year's Gero Conference!

I'm very glad to announce that CHAR faculty and graduate students are participating in 19 presentations at the **International Association of Gerontology & Geriatrics World Congress** meetings this month in San Francisco (see article). Congratulations to all!

The collaborations between CHAR faculty continue to grow. For example, nine CHAR faculty from three different colleges and two institutes collaborated on a successful proposal to the Research Office's Large Program Development Program, entitled "**Long Term Effects of Military Service.**" Deans from three colleges provided matches for this project, indicating broad cross-campus support for developing a study on aging veterans in Oregon.

Thanks to the generosity of the *Bill and Judy Winkler Fund for Promoting Positive Lifestyles and Healthy Aging*, we were able to support five LIFE Scholars this summer (see attached article). Finally, thanks to **Soyoung Choun** and **Joanne Bunnage** for cleaning up the LIFE Registry this spring! The demographics information is now integrated with participant's contact information, which has also been updated, with duplicates removed. Should make the Registry much easier to use!

Have a fun and productive summer!!

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Oregon State
University

**CHAR Presenters at the World Congress Meeting of the
International Association of Gerontology & Geriatrics
July, 2017 San Francisco**

Presidential Symposium: Long-Term Outcomes of Military Service on Aging: International Perspectives. Chair: **Carolyn Aldwin**; Discussant, **Richard Settersten**

A Lifespan Perspective on Combat Exposure Among Korean Vietnam War Veterans, **Sungrok Kang, Hyunyup Lee, Soyoun Choun, Carolyn Aldwin, Avron Spiro**

Does Combat Exposure Have Positive Long-Term Effects? Findings From the VA Normative Aging Study, **Hyunyup Lee, Soyoun Choun, Carolyn Aldwin, Avron Spiro**

Genetic Influence on Age of Menopause in Long-Lived Individuals, **Harold Bae, Fangui Sun, Stacy Andersen, Nicole Schupf, Thomas Perls, Paola Sebastiani**

Personality, Boredom, and Compensatory Use of TV in the Health and Retirement Study, **Pamela Fox, Shannon Mejia, Karen Hooker**

Executive Function in Older Adults: A Psychometric Evaluation of the Head-Toes-Knees-Shoulders Task, **Eric Cerino, Karen Hooker, Robert Stawski, Megan McClelland**

Symposium: Gerontechnology Across the Continuum: From Independent to Assisted Living. Discussant: **Karen Hooker**

The Within-Person Coupling of Health Goal Pursuit and Affect Over 100 Days, **Soyoun Choun, Karen Hooker, Shannon Mejia**

Changes in Depressive and Anxiety Symptoms in Adulthood: Findings From the VA Normative Aging Study, **Hyunyup Lee, Carolyn Aldwin, Soyoun Choun, Ritwik Nath, Avron Spiro**

Determinants of High Self-Confidence in Diabetes Management among Older Diabetes Patients, **Swan Lee, Dylan Lee, Soyoun Choun**

Prevalence and Correlates of Frailty in Chinese Older Adults: China Health and Retirement Study, **Chenkai Wu, Ellen Smit, Qian-Li Xue, Michelle Odden**

Multimorbidity Patterns Provide Added Prognostic Information beyond Frailty Status in Older Adults, **Quoc-Dinh Nguyen, Chenkai Wu, Michelle Odden, Dae Kim**

The Association of Frailty with Recovery from Disability among Newly Disabled Older Adults. **Chenkai Wu, Dae Kim, David Lee, Michelle Odden**

Health and Functional Status of Nonagenarians. **Michelle Odden, William Jen Hoe Koh, Alice Arnold, Bruce Psaty, Anne B. Newman**

Racial Differences in Associations between Family Network Stressors and Salivary Cortisol, **Kelly Cichy, Robert Stawski**

Age Differences in Emotional Reactivity to Daily Stressors: A Coordinated Analysis, **Robert Stawski, David Almeida**

Psychosocial Stress and Response Time Inconsistency in Old Age: A Measurement Burst Approach, **Robert Stawski, Stuart MacDonald**

Symposium: Context and Culture: The Impact of AIDS on the Health of Older Persons in Sub-Saharan Africa, Chair: **Jeon Small**, Co-Chair: Paul Kowal, Discussant: Margaret Ralston

Caregiving and HIV+/AIDS in Sub-Saharan Africa: Context and Culture in the Stress and Coping Process, **Jeon Small**

For complete details, see

https://www.iagg2017.org/images/documents/IAGG2017_Program_Final.pdf

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LIFE Scholar Awardees 2017

The LIFE Scholars program funds undergraduate researchers for the summer who are working with CHAR faculty. Thanks to a generous grant by the *Bill and Judy Winkler Fund for Promoting Positive Lifestyles and Healthy Aging*, we were able to support five scholars this summer. Congratulations to all!

Name	Title	Advisor
Trevor Nash	The Adverse Effects of Light on Aging Drosophila	J. Giebultowicz
Nadjalisse Reynolds-Lallement	Age-Related Differences in Spatial Memory Formation and Neural Activations in a New Virtual Model Water Maze Task.	K. Magnusson
Jeremy Chu	Determining the Physiological Mechanisms of Improved Muscular Performance and Oxygen Consumption Induced By Dietary Nitrate	N. Hord
Andrew Delaree	Preservation of Female Fertility Using a Novel Model of Aging, The Nothobranchius Killifish	K. Shay
Laren Trevis	Functional Status and Fall Risk among Older Adult Participants in Community-Based Exercise Programs	K. Gunter

For more information about this program, see <http://health.oregonstate.edu/healthy-aging/student-opportunities/life-scholars>

Veterans Aging: Longitudinal studies in OREGON (VALOR) Project

Did you know that many of the studies on human aging have been conducted on the World War II generation? Half of the men in that cohort were in military service, and half of those served in combat. Thus, military service is the “hidden variable” in aging research with largely unstudied effects, both positive and negative. Thus, subsequent cohorts with different war experiences may age differently. Over 330,000 veterans live in Oregon; 75% of them served during wartime, but only 70,000 are in the VA system (ODVA.gov). Thus, CHAR is launching The Veterans Aging: Longitudinal study in OREGON (VALOR) project. We successfully applied for funding from the OSU Research Office to gather pilot data for a planned NIA grant application. We will compare war zone with general veterans, collecting pilot data from two cohorts, Vietnam and Persian Gulf; data will also be collected from families affected by current conflicts. Two major projects comprise this proposal. The first addresses psychosocial wellbeing, and focuses on the impact of combat exposure on health outcomes (**Carolyn Aldwin, Rick Settersten, & Soyoung Choun**), family vulnerability and resilience (**Kelly Davis & Veronica Irvin**), and economic wellbeing and health policy (**David Rothwell & Thao Li**). The second study addresses neurocognitive (**Kathy Magnusson**) and sensory aging (**Juyun Lim**). **Drs. Denise Hynes and Avron Spiro** of the DVA will advise this project, as will **Drs. Cameron Smith and Mary Jaeger** from the ODVA.

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CHAR Faculty Achievements 2016 – 2017

This is a partial list of the many achievements that the CHAR faculty sent in for the newsletter. Congrats!

Grants, Awards, and Honors

Adrian (Fritz) Gombart received funding for a subcontract on an R01 (1R01GM123081) entitled “Nanofiber-based Delivery of Combined Immune-modulating Compounds to Minimize Infection and Enhance Wound Healing” (2017-2021) from the National Institute of General Medical Sciences.

Sean Newsom & Matt Robinson received an award from the John C. Erkkila, M.D. Endowment for Health and Human Performance, “Use of exercise to understand and reverse obesity-related insulin resistance.” **Sean** also received a KL2 Mentored Career Development Award from Oregon Clinical & Translational Research Institute (NIH/NCATS), “Mechanisms of lipid-related skeletal muscle insulin resistance in obesity.”

Carolyn Mendez-Luck was invited to be a member of the Long Term Care Quality Steering Committee (LTCQSC). The LTCQSC is made up of advocates and representatives from the long term care industry. The steering committee is organized by the Department of Human Services in the Safety, Oversight and Quality unit, within the Aging and People with Disabilities division.

Aurora Sherman is now a Fellow at the Gerontological Society of America.

Prominent Articles & Books

A.M. Marquez-Loza, V. Elias, C.P. Wong, E. Ho, M. Bermudez and **K.R. Magnusson** (2017) Effects of Ibuprofen on Cognition and NMDA Receptor Subunit Expression Across Aging. *Neuroscience* 344:276-292. DOI: 10.1016/j.neuroscience.2016.12.041. PMID: 28057539

Meagher, K. M., McGowan, M. L., **Settersten, R. A., Jr.**, Fishman, J. R., & Juengst, E. T. (2017). Precisely where are we going? Charting the new terrain of precision prevention. *Annual Review of Genomics and Human Genetics*, 18, 1-19. <http://www.annualreviews.org/doi/10.1146/annurev-genom-091416-035222>

Oscar, N., Mejía, S.T., Metoyer, R., & Hooker, K. (2017). Towards personalized visualization: Information granularity, situation, and personality. DIS 2017, Proceedings of the 2017 Conference on Designing Interactive Systems, pp. 811-819, June 10-14, 2017, Edinburgh, United Kingdom. <http://dx.doi.org/10.1145/3064663.3064704>

Ko, H., **Hooker, K.**, Geldhof, G.J., & McAdams, D. (2016). Longitudinal purpose in life trajectories: Examining predictors in late midlife. *Psychology and Aging*, 31, 693-698. doi: 10.1037/pag0000093.

Robinson, M. M., Dasari, S., Konopka, A. R., Johnson, M. L., Manjunatha, S., Esponda, R. R., ... & Nair, K. S. (2017). Enhanced protein translation underlies improved metabolic and physical adaptations to different exercise training modes in young and old humans. *Cell Metabolism*, 25(3), 581-592.

Lalia, A. Z., Dasari, S., **Robinson, M. M.**, Abid, H., Morse, D. M., Klaus, K. A., & Lanza, I. R. (2017). Influence of omega-3 fatty acids on skeletal muscle protein metabolism and mitochondrial bioenergetics in older adults. *Aging (Albany NY)*, 9(4), 1096.

Spiro, A. III, **Settersten, R. A.**, & **Aldwin, C. M.** (Editors) (in press, 2018). *Long-term effects of military service: The health and well-being of aging veterans*. Washington, DC: American Psychological Association Press.

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