

HDE 200C: Adult Development and Aging
Spring 2024

Class Meets: MW 10:00-11:50am @ 1106 Hart Hall

Instructor: Meng Huo, PhD

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Course Description and Objectives:

In ancient times, human beings survived an average of 20-35 years. This trend began to change with a dramatic increase in life expectancy during industrialization. The average person born in the United States today can expect to live to age 80 and most people reach their sixties and beyond. Old age has become a normal and expected period of life, rather than an exception.

Students will gain a multidisciplinary overview of adult development and aging. This course provides a background for the study of aging and also covers major cognitive, sociological and psychological theories and research in the field. Aging is often characterized by declines in certain physical and cognitive functioning. Yet, the social world shapes the nature of these declines. We will learn aging in context and explore both negative and positive changes that occur in this process.

Course Expectations:

I expect you to attend class and engage in intellectual discussions after having completed the assigned readings (available on Canvas) before the class begins. Each week, I will provide a brief lecture around that week's topic area and then you should take turns leading discussions of the reading materials. I also expect you to complete the proposal of an empirical study in the format of a research article. The proposal should reflect your learning and thinking of the field of gerontology.

Grades and Assignments:

Assignments	Points
Annotated bibliography	20 points
Discussions	40 points
Participation**: 20 points	
Leading discussions: 20 points	
Final paper	40 points
First draft: 20 points	
Presentation: 10 points	
Final paper: 10 points	
Total	100 points

Grade	Cutoff
A+	97%
A	92%
A-	90%
B+	87%
B	84%
B-	80%
C+	77%
C	74%
C-	70%
D	60%
F	<60%

Late work. Late work will not be accepted.

No Curve.

****Only one absence with documentation is permitted. Beyond that, 2 points will be deducted per absence.**

Assignments:

Annotated bibliography is required for each assigned reading, and it should consist of a brief summary of the key information in the paper (main questions addressed, significance of the question, theory and methods, results, implications). Each AB is limited to one single-spaced page and should be updated to a shared folder by Sunday before each class. I strongly recommend that you create a notebook of ABs and bring it to class so that you can more readily make connections between readings and concepts. A good use of ABs will help you be better prepared for more long-range learning goals (e.g., preliminary exams).

You will take turns writing ABs to be shared with the rest of the class and readings will be assigned alphabetically per last name initial.

You are expected to **lead discussions** of the readings you write ABs for. In addition to the AB, you need to come up with **2 discussion questions** that reflect your thinking of the reading and relevant important research ideas. You need to provide an overview of the reading before organizing a discussion. Each discussion is limited to 30 minutes. Some questions you should include in your brief overview.

- a. What research questions were asked?
- b. Why important?
- c. What major theories were used? Elaborate on the theory and how it guides the research questions.
- d. What were the methods and key findings?
- e. What do these findings contribute to the literature? Implications?

Please come prepared to talk in class. Your grade is not based on how much you say, but that you listen and provide input.

Final research paper should be completed using data from the HRS project (Health and Retirement Study; <https://hrs.isr.umich.edu/documentation/questionnaires>). The paper should be formatted as an empirical research paper and include a title page, an abstract, an introduction (with hypotheses) and a methods section. The paper should be no longer than 15 double-spaced pages (including introduction, methods, and a model figure). The reference list is not counted in the page limit. Please follow APA style (7th edition) and use Times New Roman, 12 font size, and 1 inch margin.

In the Introduction, you should state the research questions of interest and justify the rationale behind the study. Please be sure to describe guiding theoretical perspectives and review the literature. In the Methods, there should be several sections describing the sample, data, measures (include variable names), and analytic strategy.

****I would like you to be serious about this assignment and write a high-quality proposal that you may develop towards a paper that you could submit for a conference presentation or a peer-reviewed publication.**

- Please consult with me individually and finalize your research questions by April 17th. Please email me in advance to schedule a time to meet and make sure to bring a conceptual model figure and a list of relevant variables to the meeting. The earlier we can meet, the more time you will have to work on the final paper.
- The first draft will be due on May 19th (**20 points**).
 - **Title page (include title, author name, institution, etc.): 1pt**
 - **Structured abstract (150 words):**
 - Objectives: 1pt
 - Methods: 1pt
 - **Introduction:**
 - Structure:
 - Opening section: 1pt
 - One section per hypothesis: 3pts
 - Covariates and summary: 1pt

- Theory:
 - Clearly introduce the theory (1pt) and link it to the hypotheses (2pts)
 - Model figure: 1pt
 - Include a conceptual model figure clearly displaying all hypotheses
- **Methods:**
 - Sample and data: 1pt
 - Measures: 2pts (include variable names/codes for key variables)
 - Analytic strategy: 2pts
- **APA style: 2pts**
 - 0.25pts per type of error
- **Clarity in writing: 1pt**
 - Check for typos and grammatical errors
 - Avoid passive voice in scientific writing
- On the last day of class, you will present your study (**10 points**) and turn in a revised draft (**10 points**).
 - Presentation
 - Clearly explain the rationale behind your study (why is it important): 2pts
 - Introduce the theoretical perspective guiding your hypotheses: 2pts
 - Articulate support for your hypotheses: 2pts
 - Model figure: 1pt
 - Sample and measures: 2pts
 - Analytic strategy: 1pt
 - The revised draft will be graded based on the extent to which feedback is taken.

Week 1.

Apr 1. Introduction and the HRS – No AB needed

Getting Started: How to Use This Site:

<https://hrs.isr.umich.edu/about/how-to-use-this-site>

The Health and Retirement Study: An Introduction (12 min video):

<https://hrs.isr.umich.edu/documentation/video-tutorials/introduction>

Crosswell, A. D., Suresh, M., Puterman, E., Gruenewald, T. L., Lee, J., & Epel, E. S. (2020). Advancing research on psychosocial stress and aging with the Health and Retirement Study: Looking back to launch the field forward. *The Journals of Gerontology, Series B: Psychological Sciences and Social Sciences*, 75(5), 970–980.

Apr 3. Overview of Aging – ABs due on Apr 7.

PG - Mayer, K. U. (2009). New directions in life course research. *Annual Review of Sociology*, 35, 413-433.

BH - Bühler, J. L., & Nikitin, J. (2020). Sociohistorical context and adult social development: New directions for 21st century research. *American Psychologist*, 75(4), 457–469. <https://doi.org/10.1037/amp0000611>

PP - Infurna, F. J., Staben, O. E., Gardner, M. J., Grimm, K. J., & Luthar, S. S. (2023). The accumulation of adversity in midlife: Effects on depressive symptoms, life satisfaction, and character strengths. *Psychology and aging*.

Optional reading:

Baltes, P.B. (1997). On the incomplete architecture of human ontogeny: Selection, optimization, and compensation as foundation of developmental theory. *American Psychologist*, 52, 366–380.

Week 2

Apr 8. Perceptions of Aging

VP - Diehl, M., & Wahl, H. W. (2023). Self-perceptions of aging: A conceptual and empirical overview. *Current Opinion in Psychology*, 55, 101741-101741. <https://doi.org/10.1016/j.copsy.2023.101741>

YZ - Kaspar, R., Schilling, O. K., Diehl, M., Gerstorf, D., Rupprecht, F. S., Sabatini, S., & Wahl, H.-W. (2023). Differences in self-perceptions of aging across the adult lifespan: The sample case of awareness of age-related gains and losses. *Psychology and Aging*, 38(8), 824–836. <https://doi.org/10.1037/pag0000783>

PG - Cohn-Schwartz, E., Segel-Karpas, D., & Ayalon, L. (2021). Longitudinal dyadic effects of aging self-perceptions on health. *The Journals of Gerontology: Series B*, 76(5), 900-909.

Optional readings:

Levy, B. (2009). Stereotype embodiment: A psychosocial approach to aging. *Current directions in psychological science*, 18(6), 332-336.

Lamont, R. A., Swift, H. J., & Abrams, D. (2015). A review and meta-analysis of age-based stereotype threat: Negative stereotypes, not facts, do the damage. *Psychology and Aging*, 30, 180–193. <https://doi.org/10.1037/a0038586>.

Apr 10. Biology of Aging

BH - Epel, E. S. (2020). The geroscience agenda: Toxic stress, hormetic stress, and the rate of aging. *Ageing Research Reviews*, 63, 101167. <https://doi.org/10.1016/j.arr.2020.101167>

PP - Swenor, B. K., Lee, M. J., Varadaraj, V., Whitson, H. E., & Ramulu, P. Y. (2020). Aging with vision loss: a framework for assessing the impact of visual impairment on older adults. *The Gerontologist*, 60(6), 989-995.

VP - Davis, A., McMahon, C. M., Pichora-Fuller, K. M., Russ, S., Lin, F., Olusanya, B. O., ... & Tremblay, K. L. (2016). Aging and hearing health: the life-course approach. *The Gerontologist*, 56(Suppl_2), S256-S267.

Week 3

Apr 15. Aging and Physical Health

YZ - Braungart Fauth, E., Zarit, S. H., Malmberg, B., & Johansson, B. (2007). Physical, cognitive, and psychosocial variables from the disablement process model predict patterns of independence and the transition into disability for the oldest-old. *The Gerontologist*, 47(5), 613-624.

PG - Infurna, F. J., & Wiest, M. (2018). The effect of disability onset across the adult life span. *The Journals of Gerontology: Series B*, 73(5), 755-766.

BH - Duggal, N. A., Niemi, G., Harridge, S. D., Simpson, R. J., & Lord, J. M. (2019). Can physical activity ameliorate immunosenescence and thereby reduce age-related multi-morbidity?. *Nature Reviews Immunology*, 19(9), 563-572.

Apr 17. Health Disparities

PP - Mielke, G.I., Malta, D.C., Nunes, B.P. et al. All are equal, but some are more equal than others: Social determinants of leisure time physical activity through the lens of intersectionality. *BMC Public Health*, 36(2022).
<https://doi.org/10.1186/s12889-021-12428-7>

VP - Bey, G. S., Pike, J. R., Zannas, A. S., Xiao, Q., Yu, B., Shah, A. M., & Palta, P. (2024). The relationship of neighborhood disadvantage, biological aging, and psychosocial risk and resilience factors in heart failure incidence among Black persons: A moderated mediation analysis. *The Journals of Gerontology: Series B*, 79(1), gbad121.

YZ - Atkinson, L., Joshi, D., Raina, P., Griffith, L. E., MacMillan, H., & Gonzalez, A. (2023). Social engagement and allostatic load mediate between adverse childhood experiences and multimorbidity in mid to late adulthood: the Canadian Longitudinal Study on Aging. *Psychological medicine*, 53(4), 1437-1447.

Optional readings:

Anton, S. D., Woods, A. J., Ashizawa, T., Barb, D., Buford, T. W., Carter, C. S., . . . Pahor, M. (2015). Successful aging: Advancing the science of physical independence in older adults. *Ageing research reviews*, 24(0 0), 304-327.
doi:10.1016/j.arr.2015.09.005

Week 4.

Apr 22. Cognitive Aging

- PG** - Zavala, D. V., Dzikowski, N., Gopalan, S., Harrington, K. D., Pasquini, G., Mogle, J., ... & Scott, S. B. (2024). Epigenetic age acceleration and chronological age: Associations with cognitive performance in daily life. *The Journals of Gerontology: Series A*, 79(1), glad242.
- BH** - Kremen, W. S., Beck, A., Elman, J. A., Gustavson, D. E., Reynolds, C. A., Tu, X. M., . . . Franz, C. E. (2019). Influence of young adult cognitive ability and additional education on later-life cognition. *Proceedings of the National Academy of Sciences of the United States of America*, 116, 2021–2026. doi:10.1073/pnas.1811537116
- PP** - Weuve, J., Barnes, L. L., Mendes de Leon, C. F., Rajan, K. B., Beck, T., Aggarwal, N. T., . . . Evans, D. A. (2018). Cognitive aging in black and white Americans: Cognition, cognitive decline, and incidence of Alzheimer disease dementia. *Epidemiology*, 29(1), 151-159.

Apr 24. Factors Influencing Cognitive Aging

- VP** - Gold, A. L., Meza, E., Ackley, S. F., Mungas, D. M., Whitmer, R. A., Mayeda, E. R., ... & Glymour, M. M. (2021). Are adverse childhood experiences associated with late-life cognitive performance across racial/ethnic groups: Results from the Kaiser Healthy Aging and Diverse Life Experiences study baseline. *BMJ open*, 11(2), e042125.
- YZ** - Lee, S., Charles, S. T., & Almeida, D. M. (2020). Change is good for the brain: Activity diversity and cognitive functioning across adulthood. *The Journals of Gerontology, Series B: Psychological Sciences and Social Sciences*. Advance online publication. <https://doi.org/10.1093/geronb/gbaa020>
- PG** - Kennedy, G., Hardman, R. J., Macpherson, H., Scholey, A. B., & Pipingas, A. (2017). How does exercise reduce the rate of age-associated cognitive decline? A review of potential mechanisms. *Journal of Alzheimer's Disease*, 55, 1–18.

Optional reading:

- Fingerman, K. L., Huo, M., Ng, Y. T., & Zarit, S. H., (in press). Social relationships and cognitive development across adulthood. In A. K. Thomas & A. Gutches (Eds.), *Handbook of cognitive aging: A life course perspective*. Cambridge, England: Cambridge University Press.
- Gerstorf, D., Ram, N., Lindenberger, U., & Smith, J. (2013). Age and time-to-death trajectories of change in indicators of cognitive, sensory, physical, health, social, and self-related functions. *Developmental Psychology*, 49, 1805–1821.
- Pettigrew, C., & Soldan, A. (2019). Defining cognitive reserve and implications for cognitive aging. *Current Neurology and Neuroscience Reports*, 19, 1. doi:10.1007/s11910-019-0917-z
- Stine-Morrow, E. A. L. (2007). The Dumbledore hypothesis of cognitive aging. *Current Directions in Psychological Science*, 16, 295-299.

Week 5.

Apr 29. Alzheimer's Disease vs. Normal Aging: Brain Changes and Memory Functions

Guest Lecture Recording by Drs. David Bissig and Doris Chen

BH - Fjell AM, McEvoy L, Holland D, Dale AM, Walhovd KB; Alzheimer's Disease Neuroimaging Initiative. What is normal in normal aging? Effects of aging, amyloid and Alzheimer's disease on the cerebral cortex and the hippocampus. *Prog Neurobiol.* 2014 Jun;117:20-40.

PP - Jack CR Jr, Bennett DA, Blennow K, Carrillo MC, Dunn B, Haeberlein SB, Holtzman DM, Jagust W, Jessen F, Karlawish J, Liu E, Molinuevo JL, Montine T, Phelps C, Rankin KP, Rowe CC, Scheltens P, Siemers E, Snyder HM, Sperling R; Contributors. NIA-AA Research Framework: Toward a biological definition of Alzheimer's disease. *Alzheimers Dement.* 2018 Apr;14(4):535-562.

VP - Festini, S. B., Zahodne, L., & Reuter-Lorenz, P. A. (2018). Theoretical Perspectives on Age Differences in Brain Activation: HAROLD, PASA, CRUNCH—How Do They STAC Up? In *Oxford Research Encyclopedia of Psychology*.

May 1. Caregiving

YZ - Zarit, S. H., & Whitlatch, C. J. (2023). Caregiving: Stressors, challenges and treatment. In H. Friedman & C. Markey (Eds.), *Encyclopedia of Mental Health*, 3rd Ed., Oxford, UK, Elsevier.

PG - Collins, R., Hunt, A., Quinn, C., Martyr, A., Pentecost, C., & Clare, L. (2022). Methods and approaches for enhancing communication with people with moderate-to-severe dementia that can facilitate their inclusion in research and service evaluation: Findings from the IDEAL programme. *Dementia*, 21(4), 1135-1153.

BH - Sheehan, O. C., Haley, W. E., Howard, V. J., Huang, J., Rhodes, J. D., & Roth, D. L. (2021). Stress, burden, and well-being in dementia and nondementia caregivers: Insights from the caregiving transitions study. *The Gerontologist*, 61(5), 670-679.

Optional readings:

Roth, D. L., Fredman, L., & Haley, W. E. (2015). Informal caregiving and its impact on health: A reappraisal from population-based studies. *The Gerontologist*, 55(2), 309-319.

Schulz, R., Beach, S. R., Czaja, S. J., Martire, L. M., & Monin, J. K. (2020). Family caregiving for older adults. *Annual review of psychology*, 71, 635-659.

Pillemer, K., Suitor, J. J., & Baltar, A. L. (2019). Ambivalence, families and care. *International Journal of Care and Caring*, 3(1), 09-22.

Week 6.

May 6. Personality in Adulthood – Guest Lecture by Dr. Tiko Yoneda

- PP** - Soto, C. J., John, O. P., Gosling, S. D., & Potter, J. (2011). Age differences in personality traits from 10 to 65: Big Five domains and facets in a large cross-sectional sample. *Journal of personality and social psychology*, 100(2), 330.
- PG** - Graham, E. K., Weston, S. J., Gerstorf, D., Yoneda, T. B., Booth, T. O. M., Beam, C. R., ... & Mroczek, D. K. (2020). Trajectories of big five personality traits: A coordinated analysis of 16 longitudinal samples. *European Journal of Personality*, 34(3), 301-321.
- BH** - Mroczek, D. K., Graham, E. K., Yoneda, T. B., & Luo, J. (in press). Personality change and development in adulthood. Chapter.

May 8. Socioemotional Aging

- VP** - Chu, L., Shavit, Y. Z., Ram, N., & Carstensen, L. L. (2024). Age-related emotional advantages in encountering novel situation in daily life. *Psychology and Aging*, 39(2), 113–125. <https://doi.org/10.1037/pag0000798>
- YZ** - Charles, S. T., Rush, J., Piazza, J. R., Cerino, E. S., Mogle, J., & Almeida, D. M. (2023). Growing old and being old: Emotional well-being across adulthood. *Journal of Personality and Social Psychology*. Advance online publication. <https://doi.org/10.1037/pspp0000453>
- PP** - Marsh, C., & Crawford, M. T. (2024). Age is positively associated with fading affect bias: A cross-sectional comparison. *Psychology and Aging*.

Optional reading:

- Charles, S. T., & Carstensen, L. L. (2010). Social and emotional aging. *Annual Review of Psychology*, 61, 383–409.
- Charles, S. T. (2010). Strength and vulnerability integration: A model of emotional well-being across adulthood. *Psychological bulletin*, 136(6), 1068.
- Fingerman, K. L., & Charles, S. T. (2010). It takes two to tango: Why older people have the best relationships. *Current Directions in Psychological Science*, 19(3), 172-176.
- Ford, J. H., DiBiase, H. D., Ryu, E., & Kensinger, E. A. (2018). It gets better with time: Enhancement of age-related positivity effect in the six months following a highly negative public event. *Psychology and aging*, 33(3), 419.

Week 7

May 13. Social Networks, Isolation, and Loneliness

VP - Compernelle, E. L., Finch, L. E., Hawkey, L. C., & Cagney, K. A. (2021). Momentary loneliness among older adults: contextual differences and their moderation by gender and race/ethnicity. *Social Science & Medicine*, 285, 114307.

YZ - Cachón-Alonso, L., Hakulinen, C., Jokela, M., Komulainen, K., & Elovainio, M. (2023). Loneliness and cognitive function in older adults: Longitudinal analysis in 15 countries. *Psychology and Aging*, 38(8), 778–789.
<https://doi.org/10.1037/pag0000777>

PG - Ong, A. D., Graham, E. K., Jackson, K., Atherton, O. E., Luo, J., Willroth, E. C., ... & Steptoe, A. (2024). Associations between generativity and social asymmetry among older adults in Japan. *The Journals of Gerontology, Series B: Psychological Sciences and Social Sciences*, 79(2), 1–6. <https://doi.org/10.1093/geronb/gbad183>

Optional reading:

Fingerman, K. L., Huo, M., Charles, S. T., & Umberson, D. J. (2020). Variety is the spice of late life: Social integration and daily activity. *The Journals of Gerontology, Series B: Psychological Sciences and Social Sciences*, 75, 377–388.
<https://doi.org/10.1093/geronb/gbz007>

Blieszner, R., Ogletree, A. M., & Adams, R. G. (2019). Friendship in later life: A research agenda. *Innovation in Aging*, 3.
<https://doi.org/10.1093/geroni/igz005>

May 15. Social Support

BH - Cohen, S., Janicki-Deverts, D., Turner, R. B., & Doyle, W. J. (2015). Does hugging provide stress-buffering social support? A study of susceptibility to upper respiratory infection and illness. *Psychological science*, 26(2), 135-147.

PP - Lockwood, P. L., Abdurahman, A., Gabay, A. S., Drew, D., Tamm, M., Husain, M., & Apps, M. A. (2021). aging increases prosocial motivation for effort. *Psychological Science*, 32(5), 668-681.

VP - Han, S. H., Roberts, J. S., Mutchler, J. E., & Burr, J. A. (2020). Volunteering, polygenic risk for Alzheimer's disease, and cognitive functioning among older adults. *Social Science & Medicine*, 253, 112970.

Optional readings:

Gleason, M. E. J., & Iida, M. (2015). Social support. In M. Mikulincer, P. R. Shaver, J. A. Simpson, & J. F. Dovidio (Eds.), *APA handbook of personality and social psychology* (pp. 351–370). Washington, DC: American Psychological Association. doi:10.1037/14344-013

Crocker, J., Canevello, A., & Brown, A. A. (2017). Social motivation: Costs and benefits of selfishness and otherishness. *Annual Review of Psychology*, 68, 299–325.

Anderson, N. D., Damianakis, T., Kröger, E., Wagner, L. M., Dawson, D. R., Binns, M. A., ... & Cook, S. L. (2014). The benefits associated with volunteering among seniors: A critical review and recommendations for future research. *Psychological bulletin*, 140, 1505–1533. <https://doi.org/10.1037/a0037610>

Week 8.

May 20 Intergenerational Ties

YZ - Hou, Y., Suito, J. J., & Gilligan, M. (2023). Intergenerational transmission of relationship quality in later-life families. *Journal of Marriage and Family*, 85(2), 539-555.

PG - Suito, J. J., Gilligan, M., Peng, S., Con, G., Rurka, M., & Pillemer, K. (2016). My pride and joy? Predicting favoritism and disfavoritism in mother-adult child relations. *Journal of Marriage and Family*, 78, 908–925. <https://doi.org/10.1111/jomf.12288>

BH - Peng, S., Suito, J. J., & Gilligan, M. (2019). Maternal differential treatment and psychological well-being: The mediating role of marital tension and sibling tension?. *The Journals of Gerontology, Series B: Psychological Sciences and Social Sciences*. Advance online publication. <https://doi.org/10.1093/geronb/gbz158>

Optional readings:

Fingerman, K. L., Sechrist, J., & Birditt, K. (2013). Changing views on intergenerational ties. *Gerontology*, 59, 64–70.

Bengtson, V. L. (2001). Beyond the nuclear family: The increasing importance of multigenerational bonds: The Burgess award lecture. *Journal of Marriage and Family*, 63, 1–16.

Fingerman, K. L., Huo, M., & Birditt, K. (in press). A decade of research on intergenerational ties: Technological, economic, political and demographic changes. *Journal of Marriage and Family*. Advance online publication. <https://doi.org/10.1111/jomf12604>

Silverstein, M. & Giarrusso, R. (2010). Aging and family life: A decade review. *Journal of Marriage and Family*, 72, 1039–1058. doi:10.1111/j.1741-3737.2010.00749.x.

May 22. Marriage and Cohabitation

PP - Carr, D., Freedman, V. A., Cornman, J. C., & Schwarz, N. (2014). Happy marriage, happy life? Marital quality and subjective well-being in later life. *Journal of Marriage and Family*, 76, 930–948. <https://doi.org/10.1111/jomf.12133>

VP - Nazario-Acevedo, J. M., Yamashita, T., Bulanda, J. R., & Brown, J. S. (2024). Marital Quality and Depressive Symptoms among Older Hispanic Adults in the United States. *The Journals of Gerontology, Series B: Psychological Sciences and Social Sciences*, gbae032.

YZ - Liu, H., Reczek, C., & Brown, D. (2013). Same-sex cohabitators and health: The role of race-ethnicity, gender, and socioeconomic status. *Journal of Health and Social Behavior*, 54, 25-45.

Optional readings:

Kiecolt-Glaser, J. K., & Wilson, S. J. (2017). Lovesick: How couples' relationships influence health. *Annual review of clinical psychology*, 13, 421-443.

Week 9.

May 27. No class.

May 29. Qualitative Research. Guest Lecture by Drs. Vikram Koudinya and Keith Taylor

Week 10.

June 3. Bereavement

PG - Umberson, D., Olson, J. S., Crosnoe, R., Liu, H., Pudrovska, T., & Donnelly, R. (2017). Death of family members as an overlooked source of racial disadvantage in the United States. *Proceedings of the National Academy of Sciences*, 114(5), 915-920.

BH - Umberson, D., Donnelly, R., Xu, M., Farina, M., & Garcia, M. A. (2020). Death of a child prior to midlife, dementia risk, and racial disparities. *The Journals of Gerontology: Series B*, 75(9), 1983-1995.

PP - Wilson, S. J., Padin, A. C., Bailey, B. E., Laskowski, B., Andridge, R., Malarkey, W. B., & Kiecolt-Glaser, J. K. (2020). Spousal bereavement after dementia caregiving: a turning point for immune health. *Psychoneuroendocrinology*, 118, 104717.

June 5. Final Paper Presentations