



April 20, 2020

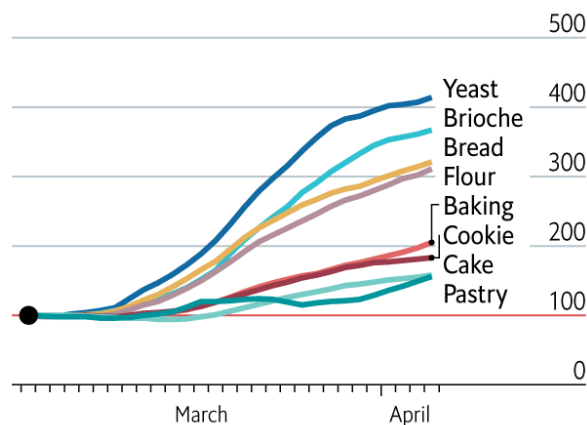
Dear Grey House team and esteemed colleagues,

47 days into our shared team-building ordeal. We've passed the "oh boy, working from home!" stage, the "horrors, working from home!" stage, and the "stimulation through cooking" stage. Looks like we have not yet flattened the curve for baking though.

Let them eat brioche

Seven-day rolling average, March 1st-7th 2020=100

Worldwide Google searches for baking terms



Sources: Instagram; Google Trends

Nevertheless, I sense the next big trend is asking, like a research team of little kids trapped in the back seat on a long, long vacation drive, "How much longer Dad?" and "Mum, what can we do to make the time pass?" Thank goodness its spring (at least in North Carolina) and there are fascinating things to see outdoors! **Thus, the end of this newsletter will celebrate team members' enjoyment of life outdoors.**

Meanwhile, I will share news now and then to keep us all on the same page, approximately weekly-ish. Here is the all the news I have that's fit to print since 13 April:

FIRST, THE HAPPY NEWS!

Karen is giving two awesome talks on April 21, to the NIA Biomarker Working Group. She is speaking on her work on the (un)reliability of DNA methylation data, and on the DunedinPoAm. We watched Karen's practice talks by zoom, and she's a star!

Congratulations Kyle! Kyle's paper accepted for publication.

Bourassa, K. J., Cornelius, T. M., & Birk, J. L. (In Press). Bereavement is associated with reduced systemic inflammation: C-reactive protein before and after widowhood. *Brain, Behavior, and Immunity*. Advanced online publication.

<https://doi.org/10.1016/j.bbi.2020.04.023>

https://www.sciencedirect.com/science/article/pii/S088915912030163X?casa_token=4zBfRuQ5WukAA:AAA:YxEGHRk_T1HWIGMCnwwypdkuKAa18qemEGf2MOJDhuBIs0MvE3R6qGL59Fr9AhyPyRQD6Nmq

Fantastic news! Max's MAP review accepted for publication.

Elliott, M. L. (2020) MRI-Based Biomarkers of Accelerated Aging and Dementia risk in Midlife: How close are we? *Aging Research Reviews* (in press). 3-sec video:



Video.mov

Collaborators in the UK and Norway are recovering from the virus and returning to virtual work. Welcome back! Don't overdo it!

Team Happy Hour zoom meeting organized by Leah for Tuesday, April 21, 2020, 12:00 PM EST. If you want to join, but need the Zoom link, let me or Leah know.

Ben has mastered creating polygenic scores, and he made them for everyone!

NEXT, THE UNHAPPY NEWS:

Jasmin was selected to attend the Summer Institute on Maltreatment and also the Life History Society annual meeting, and present her work. Now postponed to 2021.

Kyle was selected to attend the annual meeting of the NIA Research Collaborative Network) and present his work. Now postponed.

Karen's family in the UK needs our prayers, her sister, who is positive for the virus.



OPERATIONAL DETAILS:

APRIL Birthdays	APRIL Birthdays
Kyle	24-Apr
Line	25-Apr
David	23-Apr
Ahmad	27-Apr

RESEARCH-PROJECT PROGRESS SINCE 13 APRIL:

Karen got her **page proofs** for (Un)reliability of DNA methylation measurement: Consequences for the integrity of epigenetic epidemiology. Cell-Patterns
THEY LOOK HOT!

Tracy D'arbeloff has submitted a new concept paper: Exercising your way to a youthful brain: Is cardiovascular fitness associated with brainAGE?

Begona Ruiz and Jonathan Broadbent have submitted a new concept paper: Oral health in childhood as an early marker for general health in adulthood.

Leah Richmond-Rakerd's manuscript on self-control and preparation for aging is out for mock review till May 7.

Tracy Darbeloff's manuscript on fitness and brain structure is out for mock review till May 6.

Stephanie Lewis's manuscript has finished mock review: Unravelling the contribution of complex trauma to psychopathology and cognitive deficits: a cohort study.

Aaron and Max's paper has finished mock review: Association of childhood lead exposure with structural brain integrity in midlife.

Kyle's paper has finished mock review: Lower cardiovascular reactivity is associated with more childhood adversity and poorer health in midlife: Replicated findings from the Dunedin and MIDUS cohorts.

Temi and Avshalom's **Viewpoint essay has been submitted** to JAMA: Behavioral and social science goals for the clinical geroscience agenda.

Kyle's paper has passed the internal first cut at Psych Science and sent out for review: Bourassa, Financial Stressors During the Great Recession and Mortality.

Line's paper is still in review: Rasmussen, LJ, et al. (in review). Association between elevated suPAR, a new biomarker of chronic inflammation, and accelerated aging. *J Gerontology, Med Sci*

JC's paper still in review: J.C. Barnes, et al. (in review). The development of perceptions of punishment risk from adolescence to middle adulthood. *Criminology*.

Jon Schaefer's paper still in review: Schaefer, JD, et al. (in review). No evidence for genetic moderation of the effects of adolescent victimization exposure on general psychopathology in the Environmental Risk Longitudinal Twin Study. *J of Abnormal Psychology*

Temi's paper still in review: Moffitt, TE. (still in review). Behavioral and social research to accelerate the geroscience agenda. *Aging Research Reviews*, R&R.

**Projects underway are making good progress toward mock review:
Impressive progress was made this week on writing manuscripts. Well done you!**

Leah Richmond-Rakerd, mental disorder predicts physical disease and mortality

Tracy Darbeloff, lit review on fitness and brain

Maria Gehred, ACEs and brain structure

Max Elliott & Avshalom Caspi, Phase 45 PoA

Max Elliott & Line Rasmussen brain and suPAR

Jasmin Wertz, Little p and aging

Jasmin Wertz, vital personality and healthy aging

Jasmin Wertz, parenting genomics in multiple cohorts

Kyle Bourassa and Line Rasmussen, stressful life events and suPAR

Karen Sugden, education and aging

Geli Ronald and Lizzie, Autism Q and p

Franky Happe and David, Autism Q and midlife health

Wendy Slutske and Leah, longitudinal stability of problem gambling and non-problem gambling in Dunedin

We continue to thank **Renate, Maria, and Annchen** for their reproducibility stat checks on papers in mock review. This is agonizing work, but reproducibility is our hallmark!

Annchen is working with Christina Carlisi, developing new measures for her new concept paper.

Annchen Knodt and Maria Sison are doing brilliant analyses of financial behaviour and brain and moving forward on new ways of analyzing functional connectivity.

Renate is building some amazing findings about intergenerational patterns of little p, using the Dunedin family history data for study members, parents, and grandparents.

Susan is coordinating the grant application submission of **Avshalom's** K07. Big job, lots of sections, complex budget, loads of letters of support from international colleagues. Wish her luck!

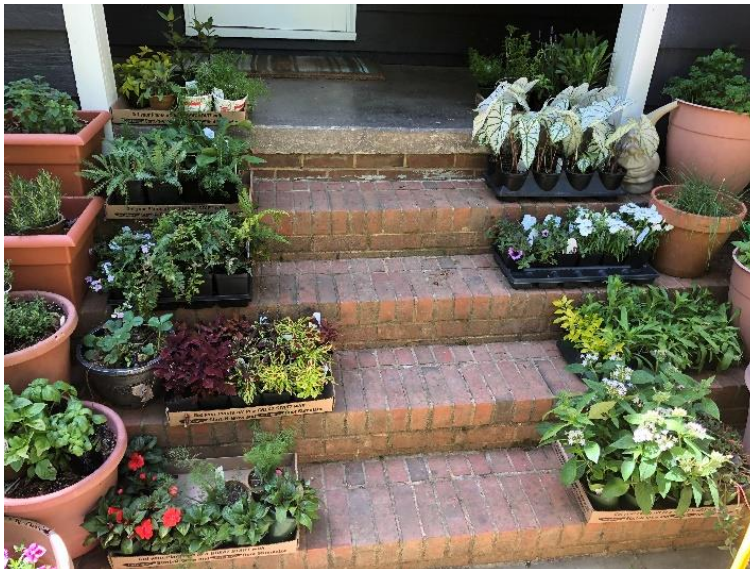
David is working with **Jax** the dog to create exportable code so that researchers who wish to apply DunedinPoAm scores to their data can apply the algorithm easily. Turns out to be very tricky because of most arrays (which contain information about hundreds of thousands of probes) have some missing data for different probes for different people. So, David is making the world's life easier. Next...he will tackle Covid-19.

AND NOW FOR THE NATURE!

Temi's neighbors, who didn't get the 6-feet-apart memo.



Ahmad's planting frenzy for next week.



Helen Fisher's neighborhood elephant god in London.



Stephanie D'Souza's backyard fejoia tree in Auckland, where its autumn



Jasmin's Easter bunny in the garden



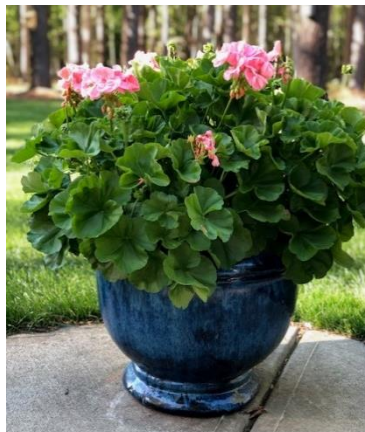
JC Barnes' rainbow



Renate's Easter egg, and tree bark art



Susan's obviously been hiding her green thumb



Leah's irises



Aaron's Dutch bearded irises, and some rather weird asparagus



Tracy found plants to create a wreath



Honalee's strange fungus. Turns out this is fungal porn, as these are the sex organs of the cedar apple rust - 'telial horns' that send out reproductive spores.



Temi's baby bluebirds



Alli and Kyle's garden of lush greens



Honalee built a frame for netting her blueberries

Signe found a digger in her garden in Copenhagen



Beach walk, from a colleague in Israel



Barry and Sonia's bee on a poroporo



And, Karen and Ben are growing the next generation of chickens!



Antony Ambler's view from his quarantine pod in London



What's amazing to me is the huge variety of different outdoors experiences we have on this team.

PARTING SHOT:

According to the American Psychological Association, boredom can increase creativity and motivate innovation. Boredom provides an opportunity to turn inward and use the time for thought and reflection. Boredom allows the mind to wander and daydream. In the absence of constant external stimulation, we use our imagination and think in different ways. Boredom with the status quo promotes novelty seeking and a willingness to challenge established ideas and practices. Try something new this week.

As always, if anyone feels the tiniest bit unwell, please let me know. Temi

