NYU Data Science Community Newsletter features journalism, research papers, events, tools/software, and jobs for

Between pleasure, joy and limitless striving OR Beyond intelligence

Labor Day. The last summer weekend in the U.S. Academics try to steal an hour or two to gather our wits before the surge of the semester leaves only airplanes and subways to suspend the deluge of email, meetings, and sundry interruptions. As a nudge toward introspection, read "Joy", a 2013 essay by **Zadie Smith**. She offers a sensible exit from the nearly tyrannical pressure to maximize personal happiness without fetishizing failure or disruption (tech world, I'm looking at you).

"A lot of people seem to feel that joy is only the most intense version of pleasure, arrived at by the same road—you simply have to go a little further down the track. That has not been my experience. And if you asked me if I wanted more joyful experiences in my life, I wouldn't be at all sure I did, exactly because it proves such a difficult emotion to manage. It's not at all obvious to me how we should make an accommodation between joy and the rest of our everyday lives."

Especially if you are an academic living in New York, try "Find Your Beach" next. This is Smith's instantly canonical 2014 essay that is both an ode to Manhattan and a cautionary tale.

"The greatest thing about Manhattan is the worst thing about Manhattan: self-actualization. Here you will be free to stretch yourself to your limit, to find the beach that is yours alone. But sooner or later you will be sitting on that beach wondering what comes next. I can see my own beach ahead now, as the children grow, as the practical limits fade; I see afresh the huge privilege of my position; it reclarifies itself. Under the protection of a university I live on one of the most privileged strips of built-up beach in the world, among people who believe they have no limits and who push me, by their very proximity, into the same useful delusion, now and then."

One of the keenest observers of human life, Smith introduces you to a part of yourself that usually lurks in your subconscious. Humans. We are so much more than intelligence, artificial or otherwise.

Data Science News

Can Your Personality Explain Your iTunes Playlist?

Stanford Graduate School of Business from August 29, 2016
"Several years of research backed by two extensive studies involving thousands of participants convinced an international team of music psychologists that personality plays a much bigger part in musical preferences than anyone had ever imagined. Bigger even than age, gender, culture, or education."

More data + psychology:
- CrowdEmotion Case Study: Spotify Music Mashup Video (August 26, Medium, Sense Makers, **Steven Mulvey**)
- Ode to Recall: To Remember Events in Order, We Rely on the Brain as a Symphony (August 26, NYU News, describes research by **Lila Davachi**)
- Instagram Probably Can't Predict Depression. GPS, Though… (August 24, WIRED, Science, **Nick Stockton**)
- New mental health technology tells your doctor what you won't (August 23, ReadWrite, **David Curry**)

[How Tech Giants Are Devising Real Ethics for Artificial Intelligence](#)

The New York Times, John Markoff from September 01, 2016
"Five of the world's largest tech companies are trying to create a standard of ethics around the creation of artificial intelligence." ... "The basic intention is clear: to ensure that A.I. research is focused on benefiting people, not hurting them."

More on the Future of AI:
- [The Hype—and Hope—of Artificial Intelligence](#) (August 26, The New Yorker, **Om Malik**)
- [What's the future of Artificial Intelligence?](#) (August 22, Raconteur Media, **Sarah Allidina**)
- [UC Berkeley launches Center for Human-Compatible Artificial Intelligence](#) (August 29, University of California-Berkeley, Berkeley News)
- [G.E., the 124-Year-Old Software Start-Up](#) (August 27, The New York Times, **Steve Lohr**)
- [The AI revolution is coming fast. But without a revolution in trust, it will fail](#) (August 26, World Economic Forum, **Marc Benioff**)
- [Artificial Intelligence Will Be as Biased and Prejudiced as Its Human Creators](#) (September 01, Pacific Standard, **Nathan Collins**)
- [How algorithms rule our working lives](#) (September 01, The Guardian, Science, **Cathy O'Neil**)
- [Building human-assisted AI applications](#) (August 25, O'Reilly Radar, Data Show Podcast, **Ben Lorica**, **Adam Marcus**)

[Elsevier Awarded U.S. Patent For "Online Peer Review System and Method"](#)

Library Journal, LJ INFOdocket from August 30, 2016
"A few hours ago, 50 months after **Elsevier** submitted a patent application for an "Online peer review system and method" the patent was awarded to the company."

"HOW or IF Elsevier is currently utilizing or will utilize the technology/method receiving patent is unknown."

[FTC Charges Academic Journal Publisher OMICS Group Deceived Researchers](#)

Federal Trade Commission from August 26, 2016
"The **FTC's** complaint alleges that **OMICS Group, Inc.**, along with two affiliated companies and their president and director, **Srinubabu Gedela**, claim that their journals follow rigorous peer-review practices and have editorial boards made up of prominent academics. In reality, many articles are published with little to no peer review and numerous individuals represented to be editors have not agreed to be affiliated with the journals."

[Chicago becomes first city to launch Array of Things](#)

UChicago News from August 29, 2016
"This week in Chicago, the Array of Things team begins the first phase of the groundbreaking urban sensing project, installing the first of an eventual 500 nodes on city streets. By measuring data on air quality, climate, traffic and other urban features,

these pilot nodes kick off an innovative partnership between the **University of Chicago**, **Argonne National Laboratory** and the **city of Chicago** to better understand, serve and improve cities."

Also in IoT:
- [IoT Accelerators Hope to Solve Time-to-Value Challenge](#) (August 29, Research Triangle Institute, RTInsights, **Sangeeta Deogawanka**)
- [End-to-End IoT Security Simplified](#) (August 25, EE Times, **Rich Quinnell**)
- [Is smart dust the IoT vector of the future?](#) (August 20, ReadWrite, **Cate Lawrence**)
- [Tech Billionaire's Data Startup C3 IoT Raises $70 Million](#) (September 01, Bloomberg, **Eric Newcomer**)

[This audacious study will track 10,000 New Yorkers' every move for 20 years](#)
Vox, Brian Resnick from August 26, 2016
"Over the next few years, **Paul Glimcher** and his team are going to recruit 10,000 New Yorkers and track everything about them for decades."

"By everything, I mean full genome data, medical records, diet, credit card transactions, physical activity, personality test scores, intelligence test scores, social interactions, neighborhood characteristics, loan records, time spent on email, educational achievement, employment status, sleep, GPS location data, blood work, and stool samples."

[Tweet of the Week](#)
Twitter, Lego Academics from September 09, 2015

Events

Fall 2016 BIDS Data Science Lecture Series Lineup
Berkeley, CA; University of California - Berkeley, Doe Library Fridays, 1:10–2:30 pm [free]

Data Hackathons: Lessons Learned & Best Practices Workshop
Denver, CO; West Big Data Innovation Hub (WBDIH), RDA, and Federation of Earth Science Information Partners (ESIP) September 15, 2016 2-5 pm [free]

Clinical Trial Transparency and Reproducibility Discussion Panel and Workshop at NYU
New York, NY; NYU, Center for Open Science, and AllTrials USA Thursday, September 29, at 1:30 pm at Langone Medical Center, Skirball 4th Floor Seminar Room [free]

President Obama to Host White House Frontiers Conference in Pittsburgh
Pittsburgh, PA Obama!, October 13, 2016, all day [free]

d3.unconf 2016
San Francisco, CA Galvanize and Google SF; October 16-17, 2016 all day [free]

Watson Developer Conference
San Francisco, CA IBM Watson; November 9-10, 2016 [$$$]

Deadlines

Humans, Machines and the Future of Work Conference Call for Posters
deadline: Conference
Houston, TX "The conference, organized by **Moshe Vardi** and co-sponsored by **The Computing Research Association**, will bring together members of computing, economics, and social sciences to discuss the possible impact of advances in computing on the future of work." -- Monday-Tuesday, December 5-6 at **Rice University**.

Deadline to submit posters is Monday, September 5.

Call for Papers: Workshop on Fairness, Accountability, and Transparency in Machine Learning
deadline: Conference
New York, NY "When algorithms make automated decisions that can affect our lives so profoundly, how do we make sure that their decisions are fair, verifiable, and accountable? This workshop will explore how to integrate these concerns into machine learning and how to address them with computationally rigorous methods." -- Friday, November 18 at **Columbia University**.

Submission Deadline: September 9, 2016

2017 OptaPro Analytics Forum accepting proposals

deadline: Conference

"We are now accepting proposals for the fourth **OptaPro** Analytics Forum. The invite-only OptaPro Forum connects professional football clubs from around the globe with some of the most innovative analytical minds operating outside of clubs." Date and venue have not been announced.

The deadline to submit proposals is Sunday, October 9.

Call for Papers - ChASM 2016

deadline: Conference

Bellevue, WA "The 4th edition of the Workshop on Computational Approaches to Social Modeling (ChASM) will be colocated with SocInfo'16, taking place in Bellevue, WA on Monday-Thursday, November 14-17."

The deadline for submitting papers is Monday, September 12.

Designing the User Experience of Machine Learning Systems

deadline: Conference

Palo Alto, CA "This symposium aims to bridge the worlds of user experience design, service design, HCI, HRI and AI to discuss common challenges, identify key constituencies, and compare approaches to designing such systems." -- Monday-Wednesday, March 27–29 at **Stanford University**.

Deadline for submissions is Friday, October 28.

Announcing the Bird Audio Detection Challenge

deadline: Contest/Award

"In collaboration with the IEEE Signal Processing Society we propose a research data challenge for you to create a robust and scalable bird detection algorithm. We offer new datasets collected in real live bioacoustics monitoring projects, and an objective, standardised evaluation framework – and prizes for the strongest submissions."

Deadline for submissions will be in December, exact date yet to be finalized.

Tools & Resources

How Startup Options (and Ownership) Works

Andreessen Horowitz from August 24, 2016
"We thought we'd share more here about how the economics behind startup options and ownership works…"

Dive into TensorFlow with Linux

O'Reilly Media, Justin Francis from August 29, 2016
A lot of machine learning tutorials are geared toward Mac. One major advantage of using Linux is it's free and it supports using TensorFlow with your GPU. The accelerated parallel computing power of GPUs are one of the reasons for such major advancements in machine learning.

Moving from R to Python: The Libraries You Need to Know

yhat blog from August 29, 2016
"In this post I'm going to go over some critical packages that I use almost every time I work in R, and their counterpart(s) in Python."

Azure vs. AWS: Cloud Comparison

Datamation from August 29, 2016
"Currently, **Amazon Web Services** is the undisputed cloud leader, with more than 30 percent of the infrastructure as a service (IaaS) market according to **Synergy Research Group**. **Microsoft Azure** experienced 100 percent revenue growth during the second quarter, and now has a firm hold on second place with more than 10 percent of the market."

Data Is Plural — Structured Archive - Google Sheets

Jeremy Singer-Vine from August 31, 2016
Data is Plural is the newsletter of interesting data sets published by computational journalist **Jeremy Singer-Vine**.

Infrastructure for Deep Learning

OpenAI; Vicki Cheung, Jonas Schneider, Ilya Sutskever, and Greg Brockman from August 29, 2016
"In this post, we'll share how deep learning research usually proceeds, describe the infrastructure choices we've made to support it, and open-source kubernetes-ec2-autoscaler, a batch-optimized scaling manager for Kubernetes."

Mapping Traffic Fatalities

Lucas Puente from September 01, 2016
"On Monday, August 29, **DJ Patil**, the Chief Data Scientist in the White House Office of Science and Technology Policy, and **Mark Rosekind**, the Administrator of the National Highway Traffic Safety Administration (NHTSA), announced the release of a data set documenting all traffic fatalities occurring in the United States in 2015. As part of their release, they issued a 'call to action' for data scientists and analysts to 'jump in and analyze it.' This post does exactly that by plotting these fatalities and providing the code for others to reproduce and extend the analysis."

Careers

Tenured and tenure track faculty positions

[Assistant, Associate, Full Professors (Multiple Openings)](#) Houston, TX; Rice University

[Director, Institute for Cyberscience](#) University Park, PA; Penn State University

[Assistant or Associate Professor, Quantitative Analysis](#) Charlottesville, VA; Darden School of Business, University of Virginia

[Assistant Professor, Human Genetics](#) Los Angeles, California; David Geffen School of Medicine, University of California-Los Angeles

[Assistant Professor - Department of Biochemistry](#) Salt Lake City, UT; University of Utah

[Assistant Professor, U.S. Art History](#) Fairfax, VA; George Mason University

[Assistant Professor, Biostatistics (2 openings)](#) Twin Cities, MN; School of Public Health, University of Minnesota

Postdocs

[Postdoc, Ethnographer of Data Science](#) Seattle, WA; Department of Human Centered Design and Engineering, University of Washington

[Postdoc, Brain Injury in Contact Sports (Soccer)](#) Dallas, TX; University of Texas, Southwestern Medical Center

[Postdoc, Deep Learning for Neuroimaging](#) Dallas, TX; University of Texas, Southwestern Medical Center

[Postdoctoral Fellowship, Quantitative Social Science Program](#) Hanover, NH; Dartmouth College

[Postdoc, Cognitive Neuroscience of Decision-Making and Cognitive Control](#) Providence, RI; The Shenhav Lab, Brown University

Full-time positions outside academia

[Data Analyst or Director](#) New York, NY; Turnaround for Children

Internships and other temporary positions

Graduate Assistant, population genetics Brooklyn NY; Chunara Lab, NYU Tandon School of Engineering