

NEWS

Community Newsletter: 3D motion tool; *Imaging Neuroscience* announcement

BY MICHAEL FERGENSON

21 MAY 2023

Jennifer Sun of the California Institute of Technology described her team's paper "**BKinD-3D: Self-supervised 3D keypoint discovery from multi-view videos**," posted 6 May on arXiv.

All animals behave in 3D - we discover 3D poses directly from multi-view videos without requiring annotations.

Essentially videos -> 3D keypoints + connections

We will be **@CVPR** on June 21!

BKinD-3D Paper: <https://t.co/smkf3lgFQ6>

Co-first-authors Lili Karashchuk & **@_AmilDravid** pic.twitter.com/d3HBozqZpA

— Jennifer J. Sun (@JenJSun) **May 15, 2023**

Hemal Naik of the Max Planck Institute replied to Sun's tweet.

It's very cool work, **@AlexHHChan** we should try this on our dataset.

— Hemal????Naik (@hmnai) **May 16, 2023**

Ann Kennedy of Northwestern University also weighed in on Sun's work.

Check out **@JenJSun** et al.'s awesome work on unsupervised 3D pose estimation! Extract 3D pose keypoints + connections from your videos with no manual annotations.

<https://t.co/mMqyZY14V0>

— Ann Kennedy (@Antihebbiann) **May 15, 2023**

MIT Press announced the launch of the new journal *Imaging Neuroscience*, which *Spectrum* **wrote about last month**.

In a significant move, the former editorial teams of *Neuroimage* and *Neuroimage: Reports* will lead the new MIT Press journal, delivering on the promise to lower APC

fees. **@ImagingNeurosci #OpenAccess #OA #Neuroscience** <https://t.co/zmaJuqGvfd>
[pic.twitter.com/RJ4iDY8kA9](https://t.co/zmaJuqGvfd)

— MIT Press (@mitpress) **May 15, 2023**

Til Ole Bergmann of Johannes Gutenberg University, **Sean Fallon** of the University of Plymouth and **Awais Aftab** of Case Western Reserve University responded to the announcement.

Imaging Neuroscience has a provisional submission platform at <https://t.co/AtKFAwPtjh>, which is now open for new submissions! ?????

Initial APCs are \$1,600 (instead of \$3,450) with waivers for low and middle income countries. Sponsors are sought to further reduce APCs in the future.

<https://t.co/vcoIT53tWk>

— Til Ole Bergmann (@tobermann) **May 15, 2023**

It's called a revolution because that's what it is, a full turn of the wheel, a change so extreme that everything stays the same... <https://t.co/hOPfy0qQts>

— Sean James Fallon (@agonistofmind) **May 16, 2023**

Feels like an opportunity to do something radical was lost here.

“... article processing charge of \$1,600 with waivers for low and middle income countries...”

Ok, this is better than Elsevier, but shouldn't we have more transparency around why exactly does this cost \$1600? <https://t.co/2dj8WHshrE>

— Awais Aftab, MD (@awaisaftab) **May 16, 2023**

Tarika Vijayaraghavan of Monash University detailed her paper “**The dynamin GTPase mediates regenerative axonal fusion in *Caenorhabditis elegans* by regulating fusogen levels,**” published 9 May in *PNAS Nexus*.

Armin Raznahan of the U.S. National Institute of Mental Health tweeted a link to the paper “**Quality control and analytic best practices for testing genetic models of sex differences in large populations,**” published 11 May in *Cell*.

Quality control and analytic best practices for testing genetic models of sex differences in large populations <https://t.co/CIPuuz3dUW>

— Armin Raznahan (@bogglerapture) **May 12, 2023**

Helen Tager-Flusberg of Boston University tweeted a response to “**Spectrum Launch: Demystifying academia with Laurel Gabard-Durnam.**”

Delighted to see Spectrum covering this superstar! <https://t.co/EPFRjIIT1b>

— Helen Tager-Flusberg (@HelenTager) **May 12, 2023**

Ana Carolina Castro of Faculdade de Medicina da Universidade do Porto described a poster titled “HCN channelopathy in a SHANK3 mouse model of ASD,” which she presented at the **Federation of European Neuroscience Societies** regional meeting earlier this month in Algarve, Portugal.

Mariah Kelley of Seattle Pacific University shared a description of her poster “Stress induces glial inflammation in the nucleus accumbens of rats,” which she presented at the **Erickson Conference 2023** 5 May in Seattle, Washington.

That’s it for this week’s Community Newsletter! If you have any suggestions for interesting social posts you saw in the autism research sphere, feel free to send an email to michael@spectrumnews.org.

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