

## NEWS

# Community Newsletter: Tortured phrases; inherited variation; atypical speech and self-harm; autism prevalence

BY MICHAEL FERGENSON

30 APRIL 2023

**Guillaume Cabanac**, creator of the **Problematic Paper Screener**, has flagged several autism-related studies that contain **tortured phrases** — strange paraphrases of established terms — on PubPeer:

- **A survey on early prediction of autism spectrum disorder using supervised machine learning methods** (This paper was **retracted earlier this month** because of its tortured phrases.)
- **An improved early detection method of autism spectrum anarchy using Euclidean Method**
- **MOD-DHGN for autism segmentation**
- **Identification of autism in MR brain images using deep learning networks**
- **Basic education for autistic children using interactive video games**
- **EEG-based computer-aided diagnosis of autism spectrum disorder**
- **Smart virtual reality-based gaze?perceptive common communication system for children with autism spectrum disorder**
- **A machine learning approach to predict and classify the levels of autism spectrum disorder**
- **Automated chatbots for autism spectrum disorder using AI assistance**
- **EEG analysis for predicting early autism spectrum disorder traits**

**Dorothy Bishop** of the University of Oxford also commented on the last paper: “This paper makes very little sense and appears to be a **typical AI gobbledegook Sandwich**. The account of EEG methods is unlike anything I have ever seen before.”

In a Twitter **thread**, **Emilie Wigdor** of the Wellcome Sanger Institute described her team’s

new **preprint**, “Investigating the role of common cis-regulatory variants in modifying penetrance of putatively damaging, inherited variants in severe neurodevelopmental disorders,” posted 25 April on medRxiv.

Our new pre-print “Investigating the role of cis-eQTLs in modifying the penetrance of putatively damaging, inherited variants in severe neurodevelopmental disorders” (NDDs) is up on medRxiv! Three interesting findings led to this study: (1/12) <https://t.co/geFTh2sJPt>

— Emilie Wigdor (@EmilieWigdor) **April 26, 2023**

**Kaitlin Samocha** of Massachusetts General Hospital and **Jack Kosmicki** of Harvard University commented on Wigdor’s tweet.

Great to see this work out by **@EmilieWigdor** digging into the question of if cis-eQTLs are modifying penetrance of rare, inherited variation in developmental disorders.

Read the thread and preprint for more details! <https://t.co/b4raTdKlyx>

— Kaitlin Samocha (@ksamocha) **April 26, 2023**

Great paper by **@EmilieWigdor** and co. examining whether cis-eQTLs modify penetrance of rare, inherited variation in developmental disorders!

In contrast to what others found in ASD and cancer, it doesn't appear to be the case here (although it may just be a power issue). <https://t.co/GUCE4XE4KD>

— Jack Kosmicki (@jakphd) **April 27, 2023**

**Yvonne Wren** of the University of Bristol and **Clare Smith** of the Academy of Research and Improvement weighed in on “**The association between atypical speech development and**

**adolescent self-harm**,” published 20 April in the *Journal of Speech, Language, and Hearing Research*.

Children with persistent **#SSD** at age 8 are twice as likely to report self-harm with suicidal intent in adolescence.

Findings from the ALSPAC study **@CO90s @CSDRNetwork @DrJanMcAllister @suelizstone** <https://t.co/bWNkx2Uslp>

— Dr Yvonne Wren (@yvonnevren) **April 25, 2023**

Great study highlighting relationship between communication & mental health. A clear case for investment in speech & language therapy & for targeting resources towards effective interventions for those that need it the most. **@HIOW\_ICS @SolentNHSTrust @HCPortsmouth @solentacademy** <https://t.co/HVjm8INkAk>

— Dr Clare Smith (@clarrysmith) **April 26, 2023**

**Simon Baron-Cohen** of the University of Cambridge tweeted a link to *Spectrum*'s article “**U.S. study charts changing prevalence of profound and non-profound autism.**”

The huge increase in autism diagnosis mainly comes from autism without learning (intellectual) disability. (Setting aside the terminology of ‘profound’ vs ‘non-profound’ autism which is not widely accepted) <https://t.co/kY9PdLI5fz> Newsletters via **@Spectrum**

— Simon Baron-Cohen (@sbaroncohen) **April 22, 2023**

**Candice Chi-Hang Cheung** of the University of Potsdam and Salah Basheer of King's College London replied to Baron-Cohen's tweet.

For those who are interested in the terminology 'profound' autism, [@AutismScienceFd](#) could provide the relevant information.

See, for example: <https://t.co/QPxdbBolzk#Autism #AutismAwareness #AutismAcceptance>

— Dr. Candice Chi-Hang Cheung (@CandiceCheung12) **April 23, 2023**

The lower levels of autism without intellectual disability in lower socioeconomic groups may be related partly to less recognition and scaffolding by the family. <https://t.co/3Woc0VK6ij>

— Salah Basheer (@salahbasheer) **April 24, 2023**

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](mailto:michael@spectrumnews.org).

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