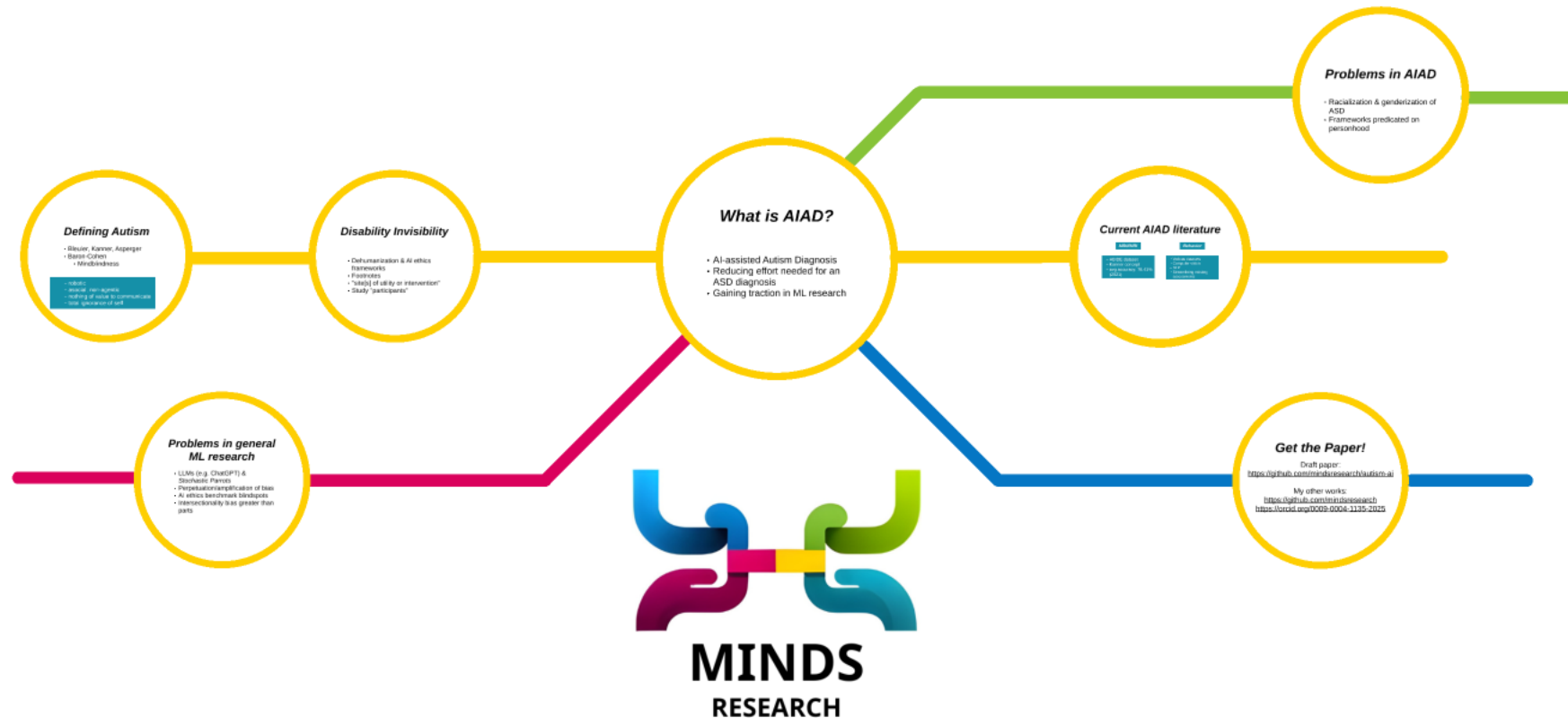


On the Dangers of AI Autism Diagnosis

Noah Duggan Erickson
Winter 2024





What is AIAD?

- AI-assisted Autism Diagnosis
- Reducing effort needed for an ASD diagnosis
- Gaining traction in ML research



Problems in general ML research

- LLMs (e.g. ChatGPT) & *Stochastic Parrots*
- Perpetuation/amplification of bias
- AI ethics benchmark blindspots
- Intersectionality bias greater than parts



Disability Invisibility

- Dehumanization & AI ethics frameworks
- Footnotes
- "site[s] of utility or intervention"
- Study "participants"

Defining Autism

- Bleuler, Kanner, Asperger
- Baron-Cohen
 - Mindblindness

- robotic
- asocial, non-agentic
- nothing of value to communicate
- total ignorance of self

Current AIAD literature

MRI/fMRI

- ABIDE dataset
- Kanner concept
- avg accuracy: 78.41% (2021)

Behavior

- Various datasets
- Computer vision
- NLP
- Streamlining existing assessments

MRI/fMRI

- ABIDE dataset
- Kanner concept
- avg accuracy: 78.41% (2021)

Behavior

- Various datasets
- Computer vision
- NLP
- Streamlining existing assessments



Problems in AIAD

- Racialization & genderization of ASD
- Frameworks predicated on personhood

Get the Paper!

Draft paper:

<https://github.com/mindsresearch/autism-ai>

My other works:

<https://github.com/mindsresearch>

<https://orcid.org/0009-0004-1135-2025>

On the Dangers of AI Autism Diagnosis

Noah Duggan Erickson
Winter 2024

