

# Caleb Schultz Kisby

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**Position:** Artificial Intelligence Research Intern

Dear Intel hiring team,

Hi, I'm Caleb, a 5<sup>th</sup> year PhD candidate at Indiana University. I'm excited to see that you are looking for a PhD research intern at your Brain-Inspired Computing Lab — so I thought I'd say more about why I'm interested in this work.

My resume shows my skills and background as an Artificial Intelligence researcher. I specialize in integrating neural networks and symbolic reasoning (aka Neuro-Symbolic AI). I do both theoretical work (proving formal theorems that relate neural networks and logic) as well as more applied work (developing hybrid neural systems that use symbolic reasoning). I have published and presented 3 papers in AI conferences (one in AAAI), and I'm currently targeting KR for a fourth paper. And during my PhD, I have had hands-on experience programming with standard machine learning tools (in particular: Tensorflow, Scikit-Learn, Word2Vec, and the Natural Language Toolkit).

In addition to all this, I would like to add that I am very interested in cognitive science at large. In fact, I do Neuro-Symbolic AI *because* it is a unifying theory for cognitive science: Neuro-Symbolic theories are really suggestions for how to map high-level psychological phenomena onto low-level neural phenomena.

During my PhD, I have taken a few cognitive science courses, including 1) a course on natural language semantics, and 2) a course on philosophy of mind and mental representations. I also attend (and have presented at) IU's Cognitive Lunch, a weekly seminar where neuroscientists, philosophers, psychologists, and AI people cross paths.

If you are interested, I'm available for a phone or Zoom interview during normal business hours (8am–6pm, EST) — please email me at the address above to schedule a time.

Thank you for your consideration,

Caleb Schultz Kisby