

# JACQUES THIBODEAU

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[GitHub Profile](#)

[LessWrong Profile](#)  
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**ML Engineering Skills:** Python, PyTorch (+ Lightning), Pandas, Scikit-Learn, spaCy, Huggingface, SQL, Docker, Wandb, FastAPI, Streamlit, Label Studio, AWS, Azure, GCP, GitHub Actions

## WORK EXPERIENCE

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- 2/2023 – Present            **Independent Researcher**
- Working on accelerating alignment research with LLMs and evaluations for stable alignment.
- 5/2022 – 1/2023            **SERI MATS: AI Alignment Scholar**
- Model editing and causal tracing with GPT-2/GPT-J. [Upcoming post](#).
  - Collaborating with others on a sequence regarding [Simulators](#).
  - Spent time reading tons of papers and alignment forum posts. Facilitated [AGISF 201](#).
  - [Mentoring people](#) in technical alignment and governance via the [AISM&M program](#).
- 1/2022 – 5/2022            **AI Safety Camp**
- Created a [dataset](#) of AI alignment texts with my team. I wrote a majority of the code and managed contractors doing a variety of tasks which include code and cleaning the texts.
  - Published [paper](#) on arXiv and Alignment Forum [post](#) based on dataset analysis.
- 2/2020 – 1/2022            **Canada Energy Regulator, Data Science Team: Data Scientist (NLP)**
- Worked collaboratively with the team to **extract tables and figures from PDFs**, and **helped build a data search tool**. I wrote [code](#) and helped with UX. [Video](#). [Search tool](#).
  - Took initiative to teach and apply **code reviews** and Huggingface in projects.
- 6/2019 – 12/2019            **Government of New Brunswick, Health: Data Analyst & Strategist**
- Improving the mental health and addictions sector with data analysis and efficiency gains.
- 7/2019 – 10/2019            **Montreal AI Ethics Institute: Research Intern**
- Conducted research on the state of AI Ethics.
- 6/2018 – 6/2019            **Government of New Brunswick, Executive Council Office: Innovation Strategist & Facilitator**
- Founding member of Social Innovation Lab. Worked on increasing effective policy innovation and acted as liaison or mentor for stakeholders at all levels of government.
- 7/2017 – 9/2017            **Université de Moncton: Deep Learning Researcher**
- Completed a literature review for using deep RL for CV. Used GCP to train ML models.
- 2013 – 2015                **Université de Moncton: Physics Researcher**
- (1/2015 - 9/2015) Invented thin film that controls the polarization of light. *Published paper*.
  - (5/2014 - 9/2014) Fabricated films to be used to protect satellites. *Published paper*.
  - (5/2013 - 9/2013) Used optical systems to fabricate and test a thin film. *Published paper*.

## SELECTED PERSONAL PROJECTS

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- [A Case Study on Weakly Supervised Learning](#): Chosen as a **top project** in the [Full Stack Deep Learning](#) course of over 300 professionals. Deployed **NLP** models on **Azure** and used the deployed models for text data labelling. (**PyTorch Lightning**, **Huggingface**, Snorkel)

## EDUCATION

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9/2014 – 5/2018            **Université de Moncton, M.Sc., Physics,**  
9/2010 – 4/2014            **Université de Moncton, B.Sc., Physics**