

Jizhou (June) Wang

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Education

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| Université de Montréal & Mila Graduate Prof. MSc in Machine Learning | 2021 - 2023 |
| McGill University Undergraduate BSc in Statistics & Computer Science | 2015 - 2019 |

Work Experiences and Projects

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| Multi-agent Acrobot Research Project | 2023-Present |
| <ul style="list-style-type: none">Experimenting with open-source software and frameworks, including Gymnasium, and MuJoCo, simulating cooperative and balancing robotic interactions and movements through self-supervised learning. | |
| Summer Camp Counselor Prévile Summer Camp | Summer 2023 |
| <ul style="list-style-type: none">Actively engaged and organized one-on-one and group activities with children 5-12, including dance, sports, arts & crafts, science, musical instruments (drums, piano), board games and robotics.Balanced fun and safe social exploration through cooperative propositions, calm-assertive supervision and attentive listening during free time and breaks. | |
| Machine Learning Researcher Intern Humanware, Longueuil, QC | 2022-2023 |
| <ul style="list-style-type: none">Led the development and fine-tuning of object detection models, leveraging SOTA models such as RegionCLIP to enhance detection robustness, outperforming classical object detectors in out-of-distribution scenarios.Implemented an Android demo application with voice guidance for the visually impaired. Proposed novel multimodal models with active data collection for continual learning and adapting to changing data distributions supporting long-term model robustness. | |
| Convolution vs Attention on Image Classification Université de Montréal | 2022 |
| <ul style="list-style-type: none">Comparatively analyzed deep vision models (ResNet, ViT, ConvNext) based on convolution or attention architectures using a proxy shape-bias metric on out-of-domain stylized samples (generated by a GAN network) to evaluate classification generalization performance; visualizations are shown here. | |
| Hockey Goal Prediction Université de Montréal | 2021 |
| <ul style="list-style-type: none">Performed exploratory data analysis on NHL play-by-play data by building an interactive 2D shot-heatmap using Plotly and ipywidget. See blog post.Developed a goal prediction service on Flask with Docker using an ensemble deep learning model based on their ROC-AUC in comet.ml. | |
| Orderly Grace Dart Extended Care Centre (CIUSSS ODIM), Montréal, QC | 2020 - 2021 |
| <ul style="list-style-type: none">Provided compassionate care to residents while working in teams managing their personal hygiene and daily routines, while following all safety protocols.Improved the mental well-being of residents by engaging in friendly social interactions; organizing groups and partner activities (exercises, social games, puzzles) while actively listening to their needs and inquiries. | |
| Toxicity Detection in Text McGill University | 2019 |
| <ul style="list-style-type: none">Compared performances across different models such as CNN, LSTM, Transformers and lexical using ROC-AUC metrics for detecting toxicity while maximizing group fairness across different identity subgroups.Finetuned transformer models such as BERT, and GPT using word embeddings such as Word2Vec and GloVe. | |

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| Irrelevant.ai ImplementAI Hackathon https://devpost.com/software/irrelevant-ai <ul style="list-style-type: none"> Designed a movie recommendation system with a two-stage supervised learning model from Fast.ai using collaborative filtering and unsupervised K-means clustering with Scikit-learn. Developed a filtering algorithm that lets the user explore beyond the AI recommendation feedback loop while maintaining a positive user rating. | 2019 |
| Web Designer Centre Saint-Antoine 50+, Montréal, QC http://centrestantoine50plus.org/ <ul style="list-style-type: none"> Designed a minimalistic website utilizing jQuery, Bootstrap and AngularJS, resulting in a responsive interface focusing on enhancing accessibility for elderly clients by optimizing text/content size spacing and color palettes. | 2017 |
| IT Support Age UK, Royal Tunbridge Wells <ul style="list-style-type: none"> Aided senior clients in a compassionate manner on various IT tasks including web browsing, applications, communication tools and settings, while recommending helpful utilities to improve their autonomy around technology. Coordinated appointments and conducted 1-on-1 inquiry-based learning on various operating systems such as Windows, Apple and Android. | 2016 |
| Software Engineer Intern Microsoft, Beijing <ul style="list-style-type: none"> Maintained web components and websites for new and existing user clients using HTML, CSS, jQuery, Bootstrap, and AngularJS. Prototyped "MicroFriends" a social networking app for interns on Android/iOS during the Microsoft Hackathon | 2015 |

Skills and Interests

Computer Science: Self-Supervised Multi-Agent Reinforcement Learning, Blockchain Technology.

Software: Pytorch, Gymnasium, MuJoCo, Sklearn, Github, OpenCV, Plotly, Flask, Docker, Solidity.

Music: [Youtube Channel](#), Certified Pianist (RCM), Lofi-Jazz, Rhythm Gamer.

Sports: Figure Skating, Partner Dancing, Bouldering, Running, Yoga, Gymnastics.

Languages: English, Mandarin (Fluent), French (DELF B2), Japanese (N3), Spanish (B1).

Other: Active Communicator, Customer Service, Hospitality Volunteering.