

EDUCATION & TRAINING	<p>Stanford University Visiting Researcher Advisors: Thang Luong (Google Deepmind) & Jeff Glenn (Stanford Medicine)</p> <p>University of Massachusetts Amherst B.S. '24 in Computer Science Advisors: Bruno Castro da Silva (Computer Science)</p>
RESEARCH	<p>My research focuses on generative modeling and decision-making, particularly diffusion models and reinforcement learning, with applications in computational biology. It supports discovery by integrating generative and decision-making methods. Below are selected papers:</p> <ol style="list-style-type: none">1. Dang et al. High-Fidelity Molecular Structure Prediction via Reinforcement Learning. <i>Preprint'26</i><ul style="list-style-type: none">• Achieved SOTA in structure prediction fidelity and affinity via RL with physics-based rewards.2. Dang et al. Drug Discovery with Expert Preferences. <i>Preprint'25</i><ul style="list-style-type: none">• Recovered 16/37 EGFR and 37/58 DRD2 drugs from 100K ligands via chemist-guided screening.• <i>Paper:</i> arXiv, <i>Code:</i> tai-dang11/cheapvs3. Dang et al. Enriching Biomedical Knowledge for Low-resource Language Through Translation. <i>EACL'23</i><ul style="list-style-type: none">• SOTA in Vietnamese biomedical benchmark and high-quality Vietnamese MedNLI dataset.• <i>Paper:</i> eacl, <i>Code:</i> vietai/ViPubmed4. MTet: Multi-domain Translation for English and Vietnamese. <i>Preprint</i><ul style="list-style-type: none">• <i>Details:</i> SOTA in English-Vietnamese translation and high-quality multi-domain bilingual corpus.• <i>Paper:</i> arXiv, <i>Code:</i> vietai/mTet5. AURORA-M: Open Source Continual Pre-training for Multilingual Language and Code <i>COLING'25</i><ul style="list-style-type: none">• Developed a 15B open-source multilingual model continually pre-trained on code and text.• <i>Paper:</i> coling, <i>Model:</i> huggingface.co/aurora-m6. Gathering Context that Supports Decisions via Entropy Search with Language Models. <i>Preprint'26</i><ul style="list-style-type: none">• Closed 85% of performance gap to fully-informed agents via uncertainty-driven information seeking.
EXPERIENCE	<ol style="list-style-type: none">1. Stanford University – <i>Visiting Researcher '24–Present</i><ul style="list-style-type: none">• Post-trained AlphaFold 3 via reinforcement learning, SOTA on structure fidelity.• Achieved optimal drug screening on large libraries via Bayesian optimization.2. UMass Amherst – <i>Research Assistant '23</i><ul style="list-style-type: none">• Engineered a multi-modal retrieval system for VQA task, boosting retrieval accuracy by 5%.• Enhanced policy specialization by optimizing discount factors within the OLS Convex Coverage Set.3. Ontocord – <i>Research Intern '23</i><ul style="list-style-type: none">• Distilled 7B LLM model to 5x smaller size while maintaining performance parity.• Developed open-source Vietnamese LLM by processing 1TB of data.4. EOG Resources – <i>Software Engineer Intern '23</i><ul style="list-style-type: none">• Built a graph-based visualization tool that accelerated complex data analysis workflows by 10%.• Automated CI/CD pipelines and enhanced security by migrating repositories to GitHub Actions.5. VietAI – <i>Research Intern '22</i><ul style="list-style-type: none">• Developed SOTA En-Vi model and improved Biomedical NMT via self-training.• Drove 6% BLEU improvement in Biomedical NMT via self-training and released Vi-MedNLI dataset.6. FPT Software – <i>Research Intern '21</i><ul style="list-style-type: none">• Developed an interactive AI frontend, streamlining workflows for 50+ engineers.
PROJECT	<ol style="list-style-type: none">1. Multi-Objective GFlowNet for Drug Design<ul style="list-style-type: none">• Generated diverse, synthesizable molecules with optimized affinity and ADMET via SynFlowNet.
HONORS & FUNDING	<p>Paper Awards: ICLR'25 Workshop Spotlight, ICML'25 Workshop Spotlight Grants: Google-HAI Grant '24 (\$90,000), Google-HAI Grant '25 (\$100,000), Stanford Marlowe Grant.</p>
SKILLS	<p>Frameworks: PyTorch, Flax, JAX, TensorFlow, Hugging Face, Flask, Node.js, Neo4j Languages: Python, Java, JavaScript, C/C++, SQL Tools: Git, Linux, GCP, Slurm, Docker, GitHub, Kubernetes</p>