Fengdi Che

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EDUCATION

University of Alberta, Edmonton, AB
Doctor of Philosophy, Computing Science, GPA 3.92/4.0   2021 - present
  * Supervisor: Rupam Mahmood

McGill University, Montreal, QC
Master of Science and Computer Science, CGPA 3.71/4.0   2018 - 2021
  * Supervisor: Doina Precup

McGill University, Montreal, QC
Bachelor of Science and Honours Applied Mathematics, CGPA 3.95/4.0   2014 - 2018

Honours

  * First Class Honours in Applied Mathematics
  * Jenne Bell Science Undergraduate Research Award – Computer Science, $2800   2017
  * Natural Sciences and Engineering Research Council of Canada Grants, $2800   2017
  * Jurate Tanner Scholarship in Science, $1200   2016
  * Faculty of Science Scholarship, $100   2015

PUBLICATION

  * Fengdi Che, Gautham Vasan, Rupam Mahmood. Correcting Discount-Factor Mismatch in On-Policy Policy Gradient Methods. Accepted to ICML 2023.

  * Jiamin He, Fengdi Che, Yi Wan, Rupam Mahmood. Consistent Emphatic Temporal-Difference Learning. Accepted to UAI 2023.

  * Fengdi Che, Xiru Zhu, Doina Precup, David Meger, Gregory Dudek. Bayesian Q-learning with Imperfect Expert Demonstrations. 3rd Offline RL Workshop. 2022.

  * Fengdi Che, Xiru Zhu, Tianzi Yang, Tzu-Yang Yu. 3SGAN: 3D Shape Embedded Generative Adversarial Networks. IEEE/CVF International Conference on Computer Vision Workshop, 2019.

  * Xiru Zhu, Fengdi Che, Tianzi Yang, Tzuyang Yu, David Meger, Gregory Dudek. Detecting GAN Generated Errors. ArXiv preprint, 2019.

Undergoing Projects

  * Solving the Deadly Triad without a State Distribution Correction, Aiming at ICLR 2024
  * Consistent Off-Policy TD Learning with Linear Function Approximation, Aiming at AISTATS 2024
  * Off-Policy Policy Gradient Method with Averaging State Distribution Correction

ACTIVITIES

University of Alberta, Edmonton, AB
Master Student Mentor 2022/12 - 2023/04
- Provided the fundamental idea and supported the master's student with several essential contributions.
- Guided the student to finish and publish the project, which was then used for his master's thesis.

Google DevFest, Edmonton, AB
Speaker 2022/11
- Gave a less technical talk to undergraduate students and software developers.

Tenth International Conference on Learning Representations, online
Reviewer 2022/10
- Provided detailed comments and actively discussed with authors and the area chair.

WeChat Blog, online
Blog Writer 2019/01 - 2019/03
- Wrote several blogs on introducing AI technology to non-technical audiences.

Montreal Verdun Elementary School, Montreal, QC
Elementary School Student Mentor 2015/01 - 2015/04
- Volunteered to mentor an elementary school student.
- Provided tutorials to my mentee on her homework and built friendships by making handcrafts and participating in sports activities.

WORK EXPERIENCE

University of Alberta, Edmonton, AB
Teaching Assistant for introduction to machine learning 2022/09 - 2022/12
Teaching Assistant for introduction to reinforcement learning 2021/01 - 2021/04
- Designed practice questions and assignments, graded assignments and organized labs.
- Received three appreciation comments for being helpful and friendly.

McGill University, Montreal, QC
Teaching Assistant for applied machine learning 2019/09 - 2019/12
Teaching Assistant for entry-level programming 2018/09 - 2019/04
Grader for honours ordinary differential equation 2017/01 - 2017/04
- Graded assignments, held tutorials and offered office hour.

China Construction Bank- Corporate Loans & Mortgages Department Royal, Dalian, China
Commercial Banking Intern 2016/08
- Coordinated documentation and transfer of files between branches and superior banks.
- Assisted in request evaluation, especially credit risk analysis for small firms' credit loans.