

# 傅时敏 FU, SHIMIN

Github page 个人网页: <https://shimin233.github.io>

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## 教育背景 EDUCATION

### 硕士, 纯数学 Master of Advanced Study, Pure Mathematics

2020.10-2021.6

- 英国, 剑桥郡, 剑桥, 剑桥大学, 菲茨威廉姆学院, 纯数学与数学统计系  
Dept. of Pure Mathematics and Mathematical Statistics, Fitzwilliam College, University of Cambridge, Cambridge, United Kingdom
- 总成绩 66/满分 100, 其中随机微积分与应用分数 75/满分 100。论文: 随机推断的一个世纪  
Overall mark 66/100. 75/100 in Stochastic Calculus & Applications. Essay: A Century of Randomisation Inference

### 理学士, 荣誉数学, 辅修经济 Bachelor of Science, Honours Mathematics, Minor Economics

2016.9-2020.5

- 加拿大, 魁北克省, 蒙特利尔, 麦吉尔大学, 数学与统计系  
Dept. of Mathematics and Statistics, McGill University, Montréal, QC, Canada
- 成绩与荣誉: 数学一等荣誉, 杰出毕业奖, Gowrisankaran 数学/统计奖, 绩点 3.96/满分 4.00  
Grade and Prizes: First Class Honours in Mathematics, Grad Excellence Award, Gowrisankaran Prize in Math/Stats, GPA 3.96/4.00

## 学术研究 RESEARCH PROJECTS & ACADEMIC ACTIVITIES

### 均匀生成树 Uniform spanning tree

2019.5-2019.8

- 指导教师: Louigi Addario-Berry; 所属学校: 加拿大, 魁北克省, 蒙特利尔, 麦吉尔大学  
Supervisor: Louigi Addario-Berry, McGill University, Montréal, QC, Canada
- 研究内容: 从配置模型、Pitman 过程、马尔可夫链与混合时间、利用 Lovász 局部引理以均匀采样等多个角度, 研究了均匀生成树与在图论领域的 Aldous-Broder 算法。  
Studies of uniform spanning trees and the Aldous-Broder algorithm on graphs, involving perspectives from configuration model, Pitman's process, Markov chain and mixing, and uniform sampling through the Lovász Local Lemma.

### 树形检索及其应用 Tree search and applications

2019.1-2019.3

- 指导教师: Dmitry Jakobson; 所属学校: 加拿大, 魁北克省, 蒙特利尔, 麦吉尔大学  
Supervisor: Dmitry Jakobson, McGill University, Montréal, QC, Canada
- 研究内容: 研究广度优先搜索、深度优先搜索, 并应用于寻找割点、图的区块方面; 使用 Kruskal 算法与 Prim 算法以寻找最小生成树。  
Studies of BFS, DFS, and their application in finding cut vertices and blocks of a graph; Kruskal's algorithm and Prim's algorithm in finding minimum-weight spanning trees.

### 麦吉尔辅导阅读项目 McGill Directed Reading Program (DRP)

2019.1-2019.3

- 辅导者: Corentin Perret-Gentil; 所属学校: 加拿大, 魁北克省, 蒙特利尔, 麦吉尔大学  
Mentor: Corentin Perret-Gentil, McGill University, Montréal, QC, Canada
- 通过与 Corentin 每周一对一的会面研究“Futurama 定理”。  
Studies of the “Futurama Theorem” in the weekly 1-on-1 meetings with Corentin.

**蒙特利尔数学研究所探索学校：随机过程的动力学 Institut des Sciences Mathématiques (ISM)**  
**Discovery School-Dynamics of Random Processes** 2019.6

- 举办学校：加拿大，魁北克省，蒙特利尔，魁北克大学蒙特利尔校区  
L'Université du Québec à Montréal (UQAM), Montréal, QC, Canada
- 由来自牛津大学、麦吉尔大学、苏黎世联邦理工大学与柏林工业大学的多位教授一系列短课程与研讨会。  
A series of mini-courses and seminars was provided by multiple professors from Oxford, McGill, ETH Zürich and TU Berlin respectively.

**课外活动 EXTRA-CURRICULAR ACTIVITIES**

**辅导员—麦吉尔数学帮助中心 Helpdesk tutor** 2019.1-2019.5; 2019.9-2020.4

- 加拿大，魁北克省，蒙特利尔，麦吉尔大学，数学与统计系，数学帮助中心  
The Math Helpdesk, Dept. of Math and Stats, McGill University, Montréal, QC, Canada
- 每周辅导随时来求助的、多个专业的学生探究多个数学科目的问题  
Tutor the students who drop in, with a large variety of majors, in a wide range of math courses, every week.

**辅导员—学长辅导项目 Mentor-Peer Mentor Buddy Program** 2019.9-2020.4

- 加拿大，魁北克省，蒙特利尔，麦吉尔大学，数学与统计系  
Dept. of Math and Stats, McGill University, Montréal, QC, Canada
- 作为高年级学生辅导员，对低年级学生一对一的帮助，提供合适的学习生活资源  
Provide peer support on a student-to-student level and refer mentees to appropriate resources

**志愿者—麦吉尔国际学生帮助项目 Volunteer-McGill International Student Buddy Program**  
2018.9-2018.12; 2019.9-2020.4

- 举办机构：加拿大，魁北克省，蒙特利尔，麦吉尔大学，国际学生服务  
International Student Services, McGill University, Montréal, QC, Canada
- 作为注册志愿者在此项目中与新入学的国际学生配对，以在校生的角度提供关于麦吉尔大学与蒙特利尔的资源咨询  
The program pairs newly admitted international students with registered volunteers, who are resource people providing a current student perspective about life at McGill and in Montréal.

**荣誉奖项 AWARDS & SCHOLARSHIPS**

**Gowrisankaran 数学/统计奖 Gowrisankaran Prize in Math/Stats** 2020.5

- 加拿大，魁北克省，蒙特利尔，麦吉尔大学，理科  
Faculty of Science, McGill University, Montréal, QC, Canada
- 在 2010 年由 Kohur Gowrisankaran 教授及其亲友赞助为二年级或最高年级的、就读于全日制理科荣誉本科学位、攻读科目含有数学的杰出学生创立。  
Established in 2010 by Professor Kohur Gowrisankaran with additional contributions from family and friends for outstanding students in their second or final year of a full-time Honours undergraduate degree program in the Faculty of Science with Mathematics as at least one component.

**理学院院长荣誉名单 Dean's Honour List** 2017.8; 2019.8

- 加拿大，魁北克省，蒙特利尔，麦吉尔大学，理科  
Faculty of Science, McGill University, Montréal, QC, Canada
- 大学对于学生成就的官方认证，此认证会被记录在成绩单上。颁发给不超过前 10% 的学生。  
An official University recognition of the student's achievements and is recorded on the transcript. Conferred upon no more than the top 10% of students.

**Jeanne Bell 理科本科生研究奖，与数学统计本科生奖 Jeanne Bell Science Undergraduate Research Award, and Math & Stat Undergrad Award as Science Undergraduate Research Awards (SURAs)** 2019.5-2019.8

- 加拿大，魁北克省，蒙特利尔，麦吉尔大学，理科  
Faculty of Science, McGill University, Montréal, QC, Canada
- 获奖者在麦吉尔的一位理科教授指导与资金支持下，参与 16 周的全日制研究，获得学术研究的相关经验。  
Recipients engage in a 16-week full-time research and development activity to gain experience in academic research, under supervision of a McGill science professor and with financial support.

## **Brennen, Herbert 奖学金 Brennen, Herbert Scholarships**

2019.8

- 加拿大, 魁北克省, 蒙特利尔, 麦吉尔大学, 理科  
Faculty of Science, McGill University, Montréal, QC, Canada
- 在 1992 年由 1919 年校友, 理学士 H.J. Brennen 遗赠, 为主修化学或数学的杰出学生建立。由理科奖学金委员会颁发。  
Established in 1992 by a bequest from H.J. Brennen, B.Sc. 1919, for deserving students majoring in Chemistry or Mathematics. Awarded by the Faculty of Science Scholarships Committee.

## **Tomlinson 本科生奖 Tomlinson Undergraduate Award**

2019.4, 2019.7, 2019.12; 2020.4

- 加拿大, 魁北克省, 蒙特利尔, 麦吉尔大学, 理科  
Faculty of Science, McGill University, Montréal, QC, Canada
- 为了加强本科生的教育质量, 担任学生辅导员, 贡献教学资源。  
In order to enhance the quality of education received by undergraduate students, improve the teaching resources for courses as one of the peer-mentors.

## **理科奖学金 Faculty of Science Scholarships**

2017.8

- 加拿大, 魁北克省, 蒙特利尔, 麦吉尔大学, 理科  
Faculty of Science, McGill University, Montréal, QC, Canada
- 在 1992 年由大学建立以表彰科系中前 5% 的学生的学术成就。  
Established in 1992 by the University to provide awards based on academic achievement to students in the top 5% of the Faculty.

## **技能特长 SKILLS & INTERESTS**

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### **软件技能 Skills**

- $\LaTeX$ , Python, Markdown, R (基础 basic), MySQL (基础 basic), 正在进一步学习编程并使用 Github 做笔记 actively leaning programming with notes on Github; MS Word, Excel, Powerpoint and Outlook;
- 使用 Adobe Flash and Photoshop 制作动画与图像; HTML & CSS, 有网页与 logo 设计的经验  
Adobe Flash and Photoshop experience, designing webpages, logos.

### **语言技能 Languages**

- 中文 (母语); 英语 (流利); 法语 (基础)  
Chinese (Mandarin) (native); English (fluent); French (basic).

### **兴趣特长 Interests**

- 热衷于数学研究与现实中人类活动的互动, 以及向大众介绍数学的艺术。  
Enthusiasm in interaction between Maths researches and real-world human activities, and introducing the art of Maths to public.
- 二胡 [17 年]; 中文硬笔书法与西方拉丁字母书法; 摄影; 滑冰; 爵士舞。  
Erhu (Chinese traditional musical instrument)[15 years]; Chinese and Western calligraphy; photography; ice-skating; Jazz dance.