**LIANG, Kunchangtai**

Email: liangkct at yahoo.com / K.Liang-4 at sms.ed.ac.uk

TOEFL iBT: 104 (R30, L26, S23, W25, 10/2019)

GRE: 324 + 4.0 (V154, Q170, AW4.0, 05/2019)

SKILLS: Python, C/C++, PyTorch, Linux Shell

EDUCATION

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| **Master's student, University of Edinburgh** | **09/2021 – Present** |

School: School of Informatics

Major: Computer Science

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| **Bachelor of Science, Peking University** | **09/2016 – 07/2020** |

School: School of Electronics Engineering and Computer Science

Major: Intelligence Science and Technology

GPA: 3.572 / 4.0

Thesis: Research on Local Feature Extraction and Video Coding for Machines Based on Neural Networks

Grade: A

WORK & RESEARCH EXPERIENCE

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| **Core Researcher (Intern), iFLYTEK Co., Ltd.** | **08/2020 – 08/2021** |

Supervisor: Zhiguo Wang (Executive President, R&D Group, iFLYTEK)

Immediate superior: Jiajia Wu (Manager of CV5, R&D Group, iFLYTEK)

Topic: Optical Character Recognition and scene text detection

* Designing algorithm for accurate scene text detection
* Improving commercially deployed OCR models to reduce errors in output
* Participating in ICDAR 2021 Competition on Scientific Literature Parsing

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| **Research Intern, Peng Cheng Laboratory** | **07/2019 – 08/2019** |

Advisor: Tao Mei (Professor, Assistant Director of PCL)

Topic: Remote Operated Vehicle control algorithm

* Collecting data of eye movement of human operator aligned to ROV camera
* Designing algorithm to detect target in underwater videos guided by the focus of human eye
* Establishing an end-to-end framework of visual servo based on eye-guided detection

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| **Undergraduate Intern, STRUCT** **Group, PKU** | **09/2017 – 06/2020** |

Advisor: Jiaying Liu (Associate Professor, Wangxuan Institute of Computer Technology, PKU)

Topic: Video understanding

* Contributing to data verification and baseline experiments on human action dataset PKU-MMD v2 (PKU Multi-Modality Dataset Part II)
* Participating in designing of a Video Coding for Machines (VCM) algorithm based on skeleton-based human action
* Designing neural networks for local feature description on images

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| **Teaching Assistant, PKU** | **09/2017 – 01/2018** |

Course: Introduction to Computation (A), PKU 04830041

Instructor: Yafei Dai (Professor, School of EECS, PKU)

Recruited as undergraduate TA because of 100/100 grade earned 01/2017

* Grading coursework (weekly assignments and major project)
* Holding Q/A sessions
* Invigilating mid-term and final exams

PAPERS AND PROPOSALS

* Sifeng Xia\*, **Kunchangtai Liang**\*, Wenhan Yang, Ling-Yu Duan, and Jiaying Liu. “An Emerging Coding Paradigm VCM: A Scalable Coding Approach Beyond Feature and Signal,” IEEE International Conference on Multimedia and Expo (ICME), 2020. (\*Equal contribution)
* **Kunchangtai Liang**, Dezhao Wang, Yuzhang Hu, Sifeng Xia, Wenhan Yang, and Jiaying Liu, “AI M1243: Local Feature Point Detector based on CNN,” 10th Meeting of Artificial Intelligence Industry Technology Innovation Strategic Alliance, 2020.

AWARDS AND HONORS

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| * Award for Scientific Research, PKU | 12/2018 |
| * Award for Community or Public Service, PKU | 12/2017 |
| * Third prize, PKU Schlumberger Cup programming competition | 06/2017 |

EXTRACURRICULAR ACTIVITIES

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| * Volunteer at Youth Volunteers Association of EECS, PKU | 09/2016 – 11/2019 |
| * Deputy secretary general | 11/2018 – 11/2019 |
| * Member of EECS baseball team | 09/2016 – 08/2018 |