

Delong Chen (陈德龙)

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Education

Bachelor degree of Computer Science, Hohai University (HHU)	Sept. 2017 – Jun. 2021
<ul style="list-style-type: none">Honored as Excellent Graduate StudentHonored as Outstanding Graduation ThesisGPA: 83/100	Nanjing, China
Summer Exchange Program, The University of British Columbia (UBC)	Jul. 2018 – Aug. 2018
<ul style="list-style-type: none">Computation for Natural Language Processing. Score: 97/100Linguistics for Natural Language Processing. Score: 85/100	Vancouver, Canada

Work Experiences

Research Assistant	Jun. 2021 – present
<ul style="list-style-type: none">Hohai University (HHU), with Professor Fan Liu	Nanjing, China
Research Intern	Sept. 2021 – present
<ul style="list-style-type: none">MEGVII (Face++) Research	Beijing, China

Research Experiences

Research interests: Multi-modal self-supervised learning, Generative Adversarial Net (GAN) and its applications, Music Information Retrieval (MIR).

Music-driven Conducting Motion Generation	Dec. 2020 – Present
<ul style="list-style-type: none">Constructed so far the largest conducting motion dataset and designed first deep learning-based music-driven conducting motion generation model [1] VideoDeveloped a demo system using 3D animation and pose transfer, awarded as ICME'21 Best Demo [2] VideoDesigned a frequency domain motion decomposition method and extended it to a hydrological application [3]Ranked 1st/205 on graduation thesis score, awarded as outstanding graduation thesis of Hohai University, and is currently selected as a candidate for Outstanding Graduation Thesis of Jiangsu Province.	
MEP-3M: Multi-modal E-commerce Products Dataset	May. 2021 – Oct. 2021
<ul style="list-style-type: none">Constructed so far the largest e-commerce products dataset MEP-3M, awarded as Best Dataset Paper [4]Extended MEP-3M from several perspective (i.e., fine-grained, hierarchical, transfer learning) [5]	
National Level Innovative Training Project Team Leader	May. 2019 – May. 2020
<ul style="list-style-type: none">Surveyed deep learning-based single sample per person face recognition [6]Studied deep learning-based driver fatigue detection [7]Surveyed automated diagnosis of COVID-19 based on scanning images [8]	
The 8th China Software Cup Competition Team Leader	Mar. 2019 – Jun. 2019
<ul style="list-style-type: none">Implemented a fabric defect recognition system based on Gabor Wavelets and CNNWon the third prize in East China Division Finals	

Awards and Prizes

♦ Best Dataset Paper Award at <i>Long-Tailed Distribution Learning Workshop, IJCAI 2021</i>	Aug. 2021
♦ Best Demo Award at <i>IEEE International Conference on Multimedia and Expo (ICME) 2021</i>	Jul. 2021
♦ Best Presentation Winner at <i>2021 4th International Conference on Big Data and Artificial Intelligence</i>	Jul. 2021
♦ Outstanding Graduation Thesis of Hohai University in 2021	Jun. 2021
♦ Excellent Graduate Student of Hohai University (first class honor, top 1.6%)	Jun. 2021
♦ Excellent Communist Youth League Member of Jiangsu Province	May. 2020
♦ Nomination Award for the Person of the Year in Jiangsu Province in 2019	Oct. 2020

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- ♦ Hohai University's 2019 Undergraduate Person of the Year Apr. 2020
 - ♦ Third Prize of The 8th China Software Cup Competition, East China Division Finals (as team Leader) Jun 2019
 - ♦ Best Debater in the 2017 Freshman Cup Debate Competition of the School of Computer and Information, Hohai University Oct. 2017

Other Experiences

- ♦ Head of the of Hohai University Symphony Orchestra May. 2019 – Sept. 2020
- ♦ Elected as a representative of the 27th Congress of the All-China Student Federation Jul. 2020 – Aug. 2020
- ♦ Organized an 11-university symphony orchestra cloud performance: composition, audio mixing, and video editing. Media coverage: [Xinhua News Agency](#), [People's Daily](#), etc. Feb. 2020 – Mar. 2020

Skills

English

- IELTS (Academic Module): 7.0
- (Chinese) College English Test-6, CET-6: 556

Computer

- Proficient in Python, Pytorch
- Familiar with Tableau, Adobe Premiere, Autodesk MotionBuilder

Music

- Received the diploma in violin performance from Central Conservatory of Music (the highest level)
- Experienced with music composing (Sibelius) and production (Cubase)
- 20+ public performances of composed music
- Basic piano and orchestra conducting skills

Publications (*corresponding author)

- [1] (working paper) Fan Liu, [Delong Chen*](#), Xiaoyu Du, Feng Xu. M²S-GAN: Learning Music-driven Conducting Motion Generation from the Self-Supervision of Music Motion Synchronization. Submitted to *Journal of Computer Science and Technology*, *JCST* [Video](#)
- [2] [Delong Chen](#), Fan Liu*, Zewen Li, Feng Xu. VirtualConductor: Music-driven Conducting Video Generation System. *2021 IEEE International Conference on Multimedia & Expo, ICME'21, Demo Track*. **[Best Demo]** [Video](#)
- [3] [Delong Chen](#), Fan Liu, Zheqi Zhang*, Xiaomin Lu, Zewen Li. Significant Wave Height Prediction based on Wavelet Graph Neural Network. *2021 4th International Conference on Big Data and Artificial Intelligence, BDAI'21*. **[Best Presentation]**
- [4] [Delong Chen](#), Fan Liu*, Xiaoyu Du, Ruizhuo Gao, Feng Xu. MEP-3M: A Large-scale Multi-modal E-Commerce Products Dataset. *IJCAI 2021 Workshop on Long-Tailed Distribution Learning*. **[Best Dataset Paper]**
- [5] (under review) [Delong Chen](#), Fan Liu*, Xiaoyu Du, Ruizhuo Gao, Feng Xu. MEP-3M: A Large-scale Multi-modal E-Commerce Products Dataset. Submitted to *Pattern Recognition*.
- [6] (under review) Fan Liu, [Delong Chen*](#), Zewen Li, Feng Xu. Deep Learning based Single Sample Face Recognition: A Survey. *Artificial Intelligence Review, AIRE*.
- [7] (under review) Fan Liu*, [Delong Chen](#), Jun Zhou, Zewen Li, Feng Xu. A Review of Driver Fatigue Detection and Its Advances on the Use of RGB-D Camera and Deep Learning. Submitted to *Artificial Intelligence Review, AIRE*.
- [8] [Delong Chen](#), Shunhui Ji*, Fan Liu, Zewen Li, and Xinyu Zhou. A Review of Automated Diagnosis of COVID-19 Based on Scanning Images. *2020 6th International Conference on Robotics and Artificial Intelligence, ICRAI'20*.
- [9] Zhibin Chen, Fan Liu*, [Delong Chen](#), Jingyu He, Xiaohan Yan. Weakly Correlated Adversarial Learning for Cognitive Diagnosis System. *2021 IEEE International Conference on Multimedia & Expo, ICME'21, Demo Track*.

陈德龙

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教育背景

河海大学 学士学位	2017.09 - 2021.06
<ul style="list-style-type: none">计算机科学与技术专业, GPA: 83/100河海大学优秀毕业生河海大学 2021 年优秀本科毕业论文, 获推荐评选江苏省优秀毕业论文	中国, 南京
不列颠哥伦比亚大学 暑期交换项目	2018.07 - 2018.08
<ul style="list-style-type: none">自然语言处理 (语言学方向): 85/100自然语言处理 (算法方向): 97/100	加拿大, 温哥华

工作经历

科研助理	2021.06 - 2021.09
<ul style="list-style-type: none">河海大学计算机与信息学院, 刘凡教授课题组	中国, 南京
算法实习生	2021.09 至今
<ul style="list-style-type: none">旷视研究院 (MEGVII Technology)	中国, 北京

研究经历

自 2019 年 3 月 (本科二年级) 受刘凡教授指导, 主要研究多模态自监督学习、生成对抗网络 (GAN) 及其应用、音乐信息检索 (MIR), 深度人脸识别等领域。本科期间共完成 8 篇论文, 5 篇论文已录用, 其中 3 篇论文分别获得 Best Demo, Best Presentation, Best Dataset Paper 奖项。此外有 2 项一作发明专利受理, 2 项一作软件著作权授权。

本科毕业论文	2020.12 - 2021.08
<ul style="list-style-type: none">构建当前最大规模的指挥动作数据集 <i>ConductorMotion100</i>将跨模态自监督学习与 GAN 结合, 实现了当前首个基于深度学习的指挥动作生成算法[1]将算法与三维动画渲染、姿态迁移技术结合[2], 获评 Best Demo提出指挥动作的动态频域分解, 并将方法运用于水文预报任务[3], 获评 Best Presentaion毕业论文专业排名第 1, 获评河海大学优秀本科毕业论文, 获推荐评选江苏省优秀毕业论文 (评选中)	
MEP-3M 多模态电商商品数据集	2021.05 - 2021.08
<ul style="list-style-type: none">构建了当前最大规模的多模态电商商品数据集 MEP-3M[4], 获 Best Dataset Paper Award设计基于文本相似度的多源类目合并方法训练多个 Baseline 模型, 包括 LSTM, VGG, Inception-v3 等	
国家级大学生创新创业训练计划项目 团队负责人	2019.05 - 2020.05
<ul style="list-style-type: none">研究基于深度学习的单样本人脸识别[7], 在投 SCI 二区期刊 (通讯作者)研究基于深度学习与 RGB-D 相机的疲劳驾驶检测[6], 在投 SCI 二区期刊 (第二作者)研究基于扫描图像的新冠肺炎自动诊断[5], EI 会议录用 (第一作者)	
第八届“中国软件杯”华东赛区决赛 团队负责人	2019.03 - 2019.06
<ul style="list-style-type: none">实现基于 Gabor 滤波器的瑕疵定位与基于 CNN 的瑕疵分类实现 GUI; 撰写软件文档获华东赛区决赛三等奖, 1 项软件著作权授权 (第一作者)	

其他经历

担任河海大学管弦乐团团长	2019.05 - 2020.09
推选为中华全国学生联合会第二十七次代表大会 (全国学联二十七次) 代表	2020.07 - 2020.08
Bilibili 平台音乐区 up 主, 2.3w 粉丝, 总播放量 200w+	2020.03 - 2021.09
策划组织 11 所高校云合奏《汉阳门花园》, 完成作曲、混音、视频制作	2020.02 - 2020.03
媒体报道: 新华社 、 人民日报 等	

专业技能

英语

- IELTS (Academic Module): 7.0
- College English Test-6 (CET-6): 556

计算机

- 掌握 Python, Pytorch, 熟悉 C, C++
- 熟悉 Tableau, Adobe Premiere, Autodesk MotionBuilder

音乐

- 中央音乐学院小提琴演奏文凭级, 河海大学小提琴特长生
- 有作曲 (Sibelius)、编曲 (Cubase) 经验, 作曲作品公开演出 20+ 次
- 有基础的钢琴演奏与乐团指挥经验

荣誉与奖项

- Best Dataset Paper Award at *Long-Tailed Distribution Learning Workshop, IJCAI 2021*. 2021.08
- Best Demo Award at *IEEE International Conference on Multimedia and Expo (ICME) 2021*. 2021.07
- Best Presentation Winner at *2021 4th International Conference on Big Data and Artificial Intelligence*. 2021.06
- 河海大学 2021 届本科优秀毕业设计 2021.06
- 河海大学 2021 届本科“优秀毕业生”荣誉称号 (前 1.6%) 2021.06
- “2019 江苏省大学生年度人物”提名奖 2020.10
- “江苏省优秀共青团员”称号 2020.05
- 2020 年河海大学“海韵风华大学生年度人物”称号 (前 0.2%) 2020.04
- 第八届“中国软件杯”大学生软件设计大赛华东分赛区决赛三等奖, 团队负责人 2019.06
- 河海大学计算机与信息学院 2017 年新生杯辩论赛“最佳辩手”称号 2017.10

科研成果 (*通讯作者)

- [1] (在投) Fan Liu, Delong Chen*, Xiaoyu Du, Feng Xu. Self-Supervised Music-Motion Correlation Learning for Music-Driven Conducting Motion Generation. Submitted to *Journal of Computer Science and Technology, JCST*. [Video](#)
- [2] Delong Chen, Fan Liu*, Zewen Li, Feng Xu. VirtualConductor: Music-driven Conducting Video Generation System. *2021 IEEE International Conference on Multimedia & Expo, ICME'21, Demo Track*. **[Best Demo]** [Video](#)
- [3] Delong Chen, Fan Liu, Zheqi Zhang*, Xiaomin Lu, Zewen Li. Significant Wave Height Prediction based on Wavelet Graph Neural Network. *2021 4th International Conference on Big Data and Artificial Intelligence, BDAI'21*. **[Best Presentation]**
- [4] Delong Chen, Fan Liu*, Xiaoyu Du, Ruizhuo Gao, Feng Xu. MEP-3M: A Large-scale Multi-modal E-Commerce Products Dataset. *IJCAI 2021 Workshop on Long-Tailed Distribution Learning*. **[Best Dataset Paper]** [Github](#)
- [5] (在投) Delong Chen, Fan Liu*, Xiaoyu Du, Ruizhuo Gao, Feng Xu. MEP-3M: A Large-scale Multi-modal E-Commerce Products Dataset. Submitted to *Pattern Recognition*.
- [6] Delong Chen, Shunhui Ji*, Fan Liu, Zewen Li, and Xinyu Zhou. A Review of Automated Diagnosis of COVID-19 Based on Scanning Images. *2020 6th International Conference on Robotics and Artificial Intelligence, ICRAI'20*.
- [7] (在投) Fan Liu*, Delong Chen, Jun Zhou, Zewen Li, Feng Xu. A Review of Driver Fatigue Detection and Its Advances on the Use of RGB-D Camera and Deep Learning. *Neuralcomputing*.
- [8] (一审修回) Fan Liu, Delong Chen*, Zewen Li, Feng Xu. Deep Learning based Single Sample Face Recognition: A Survey. *Artificial Intelligence Review, AIRE*.
- [9] Zhibin Chen, Fan Liu*, Delong Chen, Jingyu He, Xiaohan Yan. Weakly Correlated Adversarial Learning for Cognitive Diagnosis System. *2021 IEEE International Conference on Multimedia & Expo, ICME'21, Demo Track*.