

WEILAI XU

Date of Birth: 12/03/1991

EDUCATION

Ph.D in Faculty of Science and Technology

Feb.2018 - Nov.2022

Bournemouth University

Poole, UK

- **Research Interests:** Natural Language Generation, Interactive Narratives, Deep Learning, Artificial Intelligence

M.Sc in Engineering in School of Computer Science & Technology

Sept.2014 - Jun.2017

Shandong University

Jinan, China

- **Subject:** Computer Science & Technology (GPA: 84/100)

B.Eng in School of Software

Sept.2010 - Jun.2014

Shandong University

Jinan, China

- **Subject:** Digital Media Technology (GPA: 84/100)

TEACHING EXPERIENCE

Lab Demonstrator

Nov.2021 - Jan.2022

Department of Computing And Informatics, Bournemouth University

Poole, UK

- Leading lab sessions in programming tasks and marking students assignments on Java and HTML/JS/CSS.

Module Leader

Jul.2015 & Jul.2016

Interdisciplinary Research Centre (IRC), Shandong University

Tsingtao, China

- Leading a 3D-printing module of one-week computer science summer school, preparing teaching plans, and supervising other teaching assistants.

RESEARCH AND PROJECT EXPERIENCE

Football Agent Behaviour in VR (R&D Research Assistant)

Nov.2021 - Sept.2022

- Training and optimising neural network model for the movements of football players using deep learning techniques, processing and analysing motion capture data, experimenting and documenting.

Dialogue Generation with Character Personality (Ph.D thesis)

Feb.2018 - Nov.2022

- Investigate and analyse the impacts on adding cinematic characters' personality into dialogue generation using AI and deep learning techniques from different perspectives, e.g. embedding methods, personality levels, personality traits, film genres.

An Online 3D Product Design Method and System (Master thesis)

Mar.2016 - Mar.2017

- A system with a novel method for designing 3D products by freely selecting and assembling parts using WebGL.

PUBLICATIONS AND AWARDS

Publications

- Xu W., Charles F., and Hargood, C., *Generating Stylistic and Personalized Dialogues for Virtual Agents in Narratives*, International Conference on Autonomous Agents and Multiagent Systems - AAMAS, London, 2023
- Xu W., Alarab I., Lloyd-Buckingham C., Bowden S., Noer B., Charles F., Pragoonwit S., Callaway A., Ellis S. and Jones, C., *Re-enacting Football Matches in VR using Virtual Agents' Realistic Behaviours*, Artificial Intelligence & Virtual Reality - IEEE AIVR, Virtual, 2022

- Xu, W., Charles, F., Hargood, C., Tian, F. and Tang, W., *Influence of Personality-based Features for Dialogue Generation in Computational Narratives*, European Conference on Artificial Intelligence - ECAI, Santiago de Compostela, Spain, 2020
- Xu, W., *Stylistic Dialogue Generation in Narratives*, Doctoral Consortium of European Conference on Artificial Intelligence - ECAI, Santiago de Compostela, Spain, 2020
- Xu, W., Hargood, C., Tang, W. and Charles, F., *Towards Generating Stylistic Dialogues for Narratives Using Data-Driven Approaches*, International Conference on Interactive Digital Storytelling - ICIDS, Dublin, Ireland, 2018

Awards

- 2020.09 Won the best presentation award in Doctoral Consortium of European Conference on Artificial Intelligence 2020, Santiago de Compostela, Spain
- 2018.05 Won poster presentation winners 2nd prize, Faculty of Science and Technology PGR conference, Bournemouth University, UK

PROFESSIONAL MEMBERSHIP

HEA (Higher Education Academy) Fellowship Associate Fellow

OTHER WORK EXPERIENCE

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|---|--|
| Operation engineer
<i>China Zheshang Bank Co., Ltd</i> | Jun.2017 - Sept.2017
<i>Hangzhou, China</i> |
| · Maintaining data servers and operating systems, analysing the data of system performance. | |
| .NET Software Engineer Intern
<i>Beijing Sunwayworld Co., Ltd</i> | Jun.2015 - Nov.2015
<i>Beijing, China</i> |
| · Developing LIMS (Lab Information Management System) and conducting user studies. | |

SKILLS AND HOBBIES

Languages	Chinese (Work), English (Work), Japanese (Moderate), Italian (Basic)
Programming Skills	Python (Primary), Java, HTML, JavaScript, C#
CS Knowledge	NLP/NLG, DL/ML, Data Analysis, Data Visualisation
Libraries & APIs	PyTorch, Transformers, Pandas, Matplotlib, nltk, Numpy, WebGL
Other Professional Skills	Video Editing, Audio Dubbing, Microsoft Office
Hobbies	English-Chinese Translation, Ball Games