

Ruizhi Ou (Melody)

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Education

Boston University Computer Science (<i>Master of Science</i>) • <i>Research Assistant</i>	09/2023 - present
Boston University Computer Science (<i>Bachelor of Science</i>) Dean's List	09/2019 - 05/2023 GPA: 3.97 / 4.0
Columbia University Strategic Communication (<i>Master of Science</i>) • <i>Senior Vice President</i> , Chinese Students and Scholars Association, Columbia University (130+ members) • <i>Student Speaker</i> , annual international student gala, Embassy of People's Republic of China (New York)	09/2017 - 01/2019 GPA: 3.7 / 4.0
Communication University of China International Journalism (<i>Bachelor of Arts</i>) • Outstanding Student Leader (top 5%), Merit Student (top 15%)	09/2008 - 07/2012 GPA: 3.7 / 4.0

Projects

Single-Cell Analysis of Small-Cell Lung Cancer (<i>Python / R</i>)	10/2023 - present
Disease-Associated Gene Identification & Drug Recommendation (<i>Python</i>) • Customized Graph Attention Network (GATv2) to optimize disease-associated gene identification	07/2023 - 09/2023
Real-time Pose Estimation Application (<i>Python</i>) • Designed algorithms to improve the accuracy of pose estimation on the basis of human figure segmentation and key joints' coordinates extraction	03/2023 - present
Image Stitching Application (<i>Java</i>) • Designed the application to stitch images with overlapping areas and output the intact whole image	10/2019 – 11/2019

Publications

<i>Augmenting Vision-Based Human Pose Estimation with Rotation Matrix</i> link	10/2023
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Working Experience

Boston University, Center for Brain Recovery <i>Administrative Assistant</i>	<i>part-time</i> 09/2023 - present
Boston University, College of Health & Rehabilitation Sciences <i>Research Assistant to Associate Dean for Research</i> • Organized grant writing reviews, intercollegiate meetings and workshops • Collected and disseminate grant information and research updates to facilitate academic activities	<i>part-time</i> 08/2019 - 10/2021
Columbia University, Information Technology Department <i>Communications Consultant</i> • Conducted primary and secondary research to create CUIT's first Communications plan • Optimized CUIT website to achieve a more user-friendly layout	<i>part-time / full-time</i> 10/2017 - 08/2019
China Central Television <i>Line Producer</i> <i>International Affairs Coordinator</i> • Coordinated and oversaw the co-production projects with world renowned TV channels (BBC, NatGeo, etc.) • Acquired TV programs from top-class agencies	<i>full-time</i> 05/2017 - 08/2017 05/2012 - 04/2017