Yunchao "Lance" Liu

CONTACT INFORMATION	Office: 5144G Medical Rearch Building III 465 21st Ave S Nashville, TN 37212 E-mail: lanceknight26@gmail.com	Homepage: http://www.LiuYunchao.com LinkedIn: http://www.linkedin.com/in/YunchaoLiu/ GitHub: https://github.com/LanceKnight Google Scholar: http://scholar.google.com/citations?user=oFtlWfwAAAAJ&hl=er	
EDUCATION	 Vanderbilt University Doctor of Philosophy (Ph.D.) student in Computer Science Advisors: Dr. Jens Meiler, Dr. Tyler Derr, Dr. Bobby Bodenheimer Cumulative GPA: 3.92 / 4.00 		018 – Present
	University of Texas at DallasMaster of Science (M.S.) in Computer ScienceCumulative GPA: 3.85 / 4.0		May 2015
	Beijing University of Posts and Telecommune Bachelor of Science (B.S.) in Management	nications	Sep 2013
RESEARCH EXPERIENCE	Meiler Lab, Vanderbilt University PhD Student, Computer Science Department • Advisors: Dr. Jens Meiler, Dr. Tyler Derr, Dr. Bo • Research Areas: Computer-Aided Drug Discovery		18 – Present
	State Key Laboratory of Intelligent Technology and Systems, Tsinghua University Research Assistant, Department of Computer Science and Technology • Advisor: Dr. Xiaolin Hu • Research areas: Visual Saliency for Road Sign Detection		
PUBLICATIONS	Yunchao Liu, Rocco Moretti, Bobby Bodenheimer and Jens Meiler. Foldit Drug Design Game Usability Study: Comparison of Citizen and Expert Scientists. 2020. Preceddings of the 13th Annual ACM SIGGRAPH Conference on Motion, Interaction and Games (MIG), 2020		
HONORS & AWARDS	Nvidia Hardware Grant (RTX A6000)		Mar 2022
SERVICES	Learning Representations (ICLR) • AI4Science @ Conference on Neural Information Conference Sub-Reviewer • Machine Learning on Graphs (MLoG) @ Mining (WSDM) • The Web Conference (TheWebConf) • International Conference on Learning Rep • ACM International Conference on Web See • ACM International Conference on Informational Conference on Knowledg Conference Volunteer • Volunteer at International Conference on Informational Conference on Informational Conference on Informational Conference Volunteer	tured Data (DGM4HSD) @ International Commation Processing Systems (NeurIPS) ACM International Conference on Web Search and Data Mining (WSDM) atton and Knowledge Management (CIKM) and Data Mining (KDD)	2022 2021 ch and Data 2022 2022 2022 2022 2021 2021
INVITED TALKS	Foldit Drug Design Game Usability Study: Co ACM SIGGRAPH Conference on Motion, Int Zucker Family Graduate Education Center (vi	omparison of Citizen and Expert Scientists eraction and Games (MIG)	Oct 2020

OTHER WORK	American Wonder Porcelain LLC., Nashville, TN, USA	
EXPERIENCE	 IT Specialist Administrated IFS ERP system: user right control, workflow design and etc. Analyzed sales data with Power BI Planned internet layout Provided other technical support 	Sep 2015 – Jan 2018
	Xtera Communicatons Inc., Allen, TX, USASoftware Engineer InternDeveloped visulization software for remotely monitoring optical signals	Jan 2015 – Jul 2015
	University of Texas at Dallas, Dallas, TX, USAWebsite Developer InternDeveloped websites for the international center	Jun 2014 – Dec 2014
PROJECTS	Foldit Drug Design (FolditDD) Usability Study • Used the think-aloud method to conduct a usability study on FolditDD • Compared the expert scientists and citizen scientists for their scientific problem solving sk setting	2020 till in a game
	FolditDD Interface Revamp • Customized Foldit interface to meet the need for drug design • Introduced a preset function to quickly set the interface to drug design settings	2019
	Geometric Objects Rendering with Ray Tracing Technique • Used C++ and OpenGL library to render objects using ray tracing technique • Achieved optical effects including reflection, diffusion, (overlapping) shadows	2019
	Geographical Data Visualization for UFO reports • Visualized geographic data of USO reports in the USA • Designed interactive UI with features including zooming/panning/subplot	2018
	Visualizing Protein Flexibility using the Visualization Toolkit (VTK) • Developed a C++ program using VTK library to show the distance of two conformations of the Designed visulization scheme to show color coded flexibility on different parts of the protein the protein scheme to show color coded flexibility on different parts of the protein scheme to show color coded flexibility on different parts of the protein scheme to show color coded flexibility on different parts of the protein scheme to show color coded flexibility on different parts of the protein scheme to show color coded flexibility on different parts of the protein scheme to show color coded flexibility on different parts of the protein scheme to show the distance of two conformations of the protein scheme to show color coded flexibility on different parts of the protein scheme to show the distance of two conformations of the protein scheme to show color coded flexibility on different parts of the protein scheme to show the distance of two conformations of the protein scheme to show the distance of two conformations of the protein scheme to show color coded flexibility on different parts of the protein scheme to show the distance of the protein scheme to scheme to show the distance of the protein scheme to scheme	
	 IFS Enterprise Resource Planning (ERP) Deployment Designed the workflows for purchase order, inventory management, sales order, invoice, s work order in the IFS ERP system Extracted data using SQL and designed auto-generated financial reports including balance statement, cost analysis etc. 	
	Library Management System • Designed and developed a library management system uisng Java and SQL • Features including book lookup, return, overdue fine calculation, fine payment etc.	2015
	Full-time Curricular Practical Training (CPT) calculator • Developed a web-based full-time CPT calculator at the international center at UT Dallas to international students avoid overtime working	2014 o help
SKILLS	Proficient with: Python, LATEX Coded using: C, C++, C#, Java, Visual Basic, HTML, Javascript, MATLAB, R Operating Systems: CentOS, Ubuntu, and Windows	
LANGUAGES	English: Fluent (speaking, reading, writing). Chinese: Native language.	
REFERENCES	Available Upon Request	

[CV compiled on 2022-06-13]