

# London Bielicke

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## EDUCATION

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University of California, Los Angeles (UCLA)	June 2029 (anticipated)
Computer Science Ph.D; GPA: 4.0/4.0	
Rhodes College, Memphis, TN	May 2024
Bachelor of Science in Computer Science and German	
GPA: 4.0/4.0; Presidential Scholarship; Phi Beta Kappa; Summa Cum Laude; Equestrian Team Vice President	
University of Tübingen, Tübingen, Germany	August 2023

## SKILLS

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Causal inference, Experimental design, Programming language design, Formal methods, Linux, Python, C, SQL, Git, Z3 Theorem Prover, Iterative development

## EXPERIENCE

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Researcher, UCLA, Los Angeles, CA	August 2024-present
• Led design and implementation of <b>PPlanet</b> , a domain-specific language (DSL) that allows scientists to specify experiments in a machine-verifiable format to facilitate scientific communication and reproducibility.	
• Formalized DSL operations as logical constraints on matrix entries, using Z3 Theorem Prover to generate valid designs that correctly represented 14 of 15 CHI and UIST experiments.	
High-Performance Computing Developer, Los Alamos National Laboratory, Los Alamos, NM	May 2024-August 2024
• Integrated Charliecloud with Kubernetes by implementing the Container Runtime Interface (CRI) in a gRPC server to enable automated orchestration of fully-unprivileged containers on high-performance systems.	
Research Intern, Computing Research Association (DREU), Newark, DE	May 2022-May 2024
• Built and deployed a personal informatics tool that integrates emotion prediction with computer peripheral data to predict real-time stress.	
• Improved Random Forest performance, increasing F1-score from 0.40 to 0.88 by incorporating contextual data.	

Researcher, Rhodes College, Memphis, TN	August 2022-January 2023
• Designed a locality-aware work-stealing algorithm using atomic operations to minimize communication between nodes.	
• Created and tested virtual reality environments in Unity to increase users' sense of embodiment by modifying haptics, throwing physics, and rotational vection.	

## PUBLICATIONS

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- **Bielicke, L.**, Zhang, A., Tyagi, S., et al. 2025. *PPlanet: Formalizing Assignment Procedures in the Design of Experiments*. Under review at CHI (arxiv preprint: <https://doi.org/10.48550/arXiv.2505.09094>)
- Chandrasekaran, A., **Bielicke, L.**, et al. 2024. "I spent 14 hours debugging just one assignment": Toward Computer-Mediated Personal Informatics for Computer Science Student Mental Health. CHI. <https://dl.acm.org/doi/10.1145/3706598.3713269>
- Zhang, A., **Bielicke, L.**, et al. 2025. *Causality and Semantic Separation*. Under review at PLDI

## PROJECTS

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Reinforcement Learning Agent for Laser Hockey Tournament, Tübingen, Germany	Aug 2023
• Trained a Deep Dueling Q Network modified with Prioritized Experience Replay, placing 15 out of 100 submissions.	

## AWARDS

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- Graduate Dean's Scholar Award:** \$14,500 supplement awarded to UCLA's most highly qualified graduate students  
**Presidential Scholarship:** \$37,000 merit-based scholarship recognizing top incoming students  
**STEM Impact Scholarship:** \$15,000 merit-based scholarship for STEM students  
**Buckman Fellow:** \$10,000 highly competitive merit-based fellowship to fund study abroad  
**Peyton Nalle Finalist:** finalist for the highest academic award at Rhodes College  
**Jack U. Russell Award(s)** for Outstanding Senior in Computer Science and Outstanding Work in First-Year Computer Science