Russell Feldhausen

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Ed	ucation				
	Ph.D. Computer Science	Kansas State University	Expected May 2021		
	• GPA: 4.0/4.0				
	Major Professor: Dr. Daniel A. Andresen				
	M.S. Computer Science	Kansas State University	May 2018		
	• GPA: 4.0/4.0				
	 Major Professor: Dr. Daniel A. Andresen 				
	• Thesis: Mission to Mars: A Computer Science Curriculum for Middle School STEM Camps				
	B.S. Computer Science	Kansas State University	December 2008		
	 Magna Cum Laude G 	raduate (GPA: 3.867/4.0)			
	 Completed College of 	f Engineering Honors Program			
	 Member of Tau Beta 	Pi Engineering Honor Society			
	 Senior Project: AJAX 	Based Web Form Creator and Database Hos	t System		
	 Honors Project: Imple 	ementing a Two-Phase Algorithm for Solving	g a Rubik's Cube		
Pr	ofessional Experience				
•••	Instructor				
	Kansas State University -	Computer Science	2018-Present		
	Developing online undergraduate certificate program in CS				
	Developing new online programming curriculum using Codio				
	 Courses developed m 	hav also be used for additional programs suc	:h as		
	high school outreach professional development and a new BA in CS				
	Recording lecture videos and creating automated project assessments				
	Teaching online course in system administration				
	Graduate Teaching Assistant				
	Kansas State University -	Computer Science	2017-2018		
	 Graded weekly assign 	nments, written papers, and online homewo	ork		
	Assisted the instructor	or with course management duties			
	 Provide ideas and fee 	edback to instructor regarding the course			
	Instructor Academic A	dvisor			
	CyberCorps: Scholarship	for Service (SFS) Program Coordinator			
	Kansas State University -	Computer Science	2012-2017		
	Developed and taught	t courses in introductory computing science	and systems admin		
	Advised students each semester to choose appropriate courses and find employment				
	Recruited and managed students in the SES other security scholarship program				
	• Met with prospective students and parents to discuss our program at various events				
	Assisted with several	department outreach and recruiting events			
		separation out cool and red uting events			

• Advised several student club groups and department open house committee

Computer Support Specialist Kansas State University - Communications and Ag. Education	2008-2012
Provided technical support for department & K-State Research and Extensic	n (KSRF)
Supervised students providing beindesk services for KSRF across the state	
Designed evaluated and implemented technology solutions to meet needs	
Created and maintained documentation for systems, software, and process	مديريمط
 Assisted with several reorganization efforts and search committees in denait 	rtmont
• Assisted with several reorganization enorts and search committees in depart	
Personal Consulting	2005-2012
 Provided hardware and software purchase consulting, installation and main Designed and implemented technology solutions and backup strategies for 	clients
onors & Awards	
 Kansas 4-H Distinguished Service Award Recipient 	2013
$_{\odot}$ Recognizes volunteer work with the Kansas 4-H program	
• Kansas 4-H Clover Award	2011
\circ Recognizes significant contribution to Kansas 4-H by non-4-H staff	
 Communications and Ag. Ed. Unclassified Employee of the Year 	2011
• Top Placing in K-State ACM Chapter's Programming Contest	2009-2011
\circ 2 nd Place Fall 2009; 1 st Fall 2010; 2 nd Spring 2011; 3 rd Fall 2011	
eaching Activities	
Computational Core	2019-Present
Developing a new set of online courses in programming and software	
development to begin Fail 2019	
• Courses will be offered offine using state-of-the-art learning platforms	
Such as Courses will form the basis of a new undergraduate cortificate program	
Courses will form the basis of a new undergraduate certificate program	
Many courses will contain automated project assessments to increase	
scalability without additional faculty time	
• Courses may be used for other programs such as high school outreach,	
professional development, and a new BA in Applied CS	2012 2017
CIS 115: Introduction to Computing Science	2013-2017
• Co-created and updated curriculum for this class with other faculty	
• Independently taught 24 sections of 30-50 students each over a span of 4 ye	ears
Hired and managed up to 12 undergraduate teaching assistants each semes	ter and
directed their work to grade student assignments and provide effective feed	Jback
Student retention from freshman to sophomore year within the departmen	t has
increased significantly after the introduction of this course	- / ->
• Consistently given very high "teacher effectiveness" rating from students (4	.8+ / 5.0)
 <u>Course contents and objectives:</u> 	
 Provide a broad overview of computing science to incoming students 	
 Cover the basics of computer programming skills 	
\circ Expose students to a wide variety of computer science research topics	
	hld
 Introduce students to teamwork and communication skills needed in fie 	
 Introduce students to teamwork and communication skills needed in fie Students write several blog articles to discuss and reflect on important t 	opics

CIS 225: Personal Computer Systems Administration

- Developed this course as a new offering for information systems majors
- Class curriculum based on my experience as a system administrator on campus
- Hired and managed 2 undergraduate teaching assistants to assist with grading and helping students complete lab assignments.
- Consistently given very high "teacher effectiveness" rating from students (4.8+ / 5.0)
- Course contents and objectives:
 - \circ Give students experience working with Windows and Linux systems
 - \odot Introduce students to shell scripting, networking, user management, troubleshooting, and virtual machine software
 - \odot Provide hands-on experience working with many different technologies
 - \circ Prepare students to be competent in any IT field or related areas

CIS 527: Enterprise Systems Administration

- Developed this course as a new technical elective for all department majors
- Curriculum based on my past experience and new cloud server technologies
- Consistently given high "teacher effectiveness" rating from students (4.6+ / 5.0)
- Redeveloped into an online course in 2018 with new modules added

• Course contents and objectives:

Students build working server systems using Windows and Linux virtual machines
 Increase students' ability to search for problem solutions with minimal guidance

- Explore networked environments mimicking those used in industry
- o Students gain experience working with cloud systems and
- $_{\odot}$ Expose students to virtual machine software and other IT tools and practices

CIS 595: Information Systems Internship

• Coordinated this class for students completing their required internship

<u>Course contents and objectives:</u>

- \circ Students gain an approved internship on campus or in industry
- \odot Students submit regular reports to show they are achieving their goals
- \circ Students give a final presentation to the department and peers describing the internship and knowledge gained from the experience

CIS 190: Open House Committee

• Developed this course for students interested in presenting at open house

<u>Course contents and objectives:</u>

Students collaborate to form teams and create displays for open house
 Give hands-on experience with teamwork, creativity, and communication skills
 Explore how to share aspects of computer science with the public

DEN 301: Creative Problem Solving in Engineering

• Co-created new curriculum materials for this course for all engineering disciplines with another engineering faculty member

<u>Course contents and objectives:</u>

- \circ Explore the decision-making process within engineering and design
- \odot Expose students to concepts such as neuroscience, bias, and reasoning
- \odot Students collaborate on teams to design a learning experience for peers

2014-2017

2014-2017

2017

2014-2017, 2018-Present

Peer Reviewed Papers & Posters

 Feldhausen, R., Weese, J. L., & Bean, N. H. (2018, Feb). Increasing Student Self-Efficacy in Computational Thinking via STEM Outreach Programs Proceedings of the 49th ACM Technical Symposium on Computing Science Education, SIGCSE '18, Baltimore, Maryland. 10.1145/3159450.3159593 Acceptance rate: 35% 	2018
 Weese, J. L., & Feldhausen, R. (2017, June). STEM Outreach: Assessing Computational Thinking and Problem Solving Paper presented at 2017 ASEE Annual Conference & Exposition, Columbus, Ohio. http://peer.asee.org/28845 	2017
 Weese, J. L., Feldhausen, R., & Bean, N. H. (2016, June). The Impact of STEM Experiences on Student Self-Efficacy in Computational Thinking Paper presented at 2016 ASEE Annual Conference & Exposition, New Orleans, Louisiana. 10.18260/p.26179 	2016
 Bean, N.H., Weese, J.L., Feldhausen, R., & Bell, R. S. (2015, October). Starting from Scratch: Developing a Pre-Service Teacher Training Program in Computational Thinking. Frontiers in Education Conference (FIE), 2015. 32614 2015. IEEE, El Paso, TX. 10.1109/FIE.2015.7344237 	2015
 Bean, N.H., Bell, R.S., & Feldhausen, R. (2015, April). Scratching the Surface: First Steps in Preservice Teacher Training on Computational Thinking Paper presented at the 2015 annual meeting of the American Educational Research Association, Chicago, Illinois. 	2015
 Feldhausen, R., Bell, R.S., & Andresen, D.A. (2014, July). Minimum Time, Maximum Effect: Introducing Parallel Computing in CSO and STEM Outreach Activities Using Scratch Proceedings of the 2014 Annual Conference on Extreme Science and Engineering Discovery Environment (XSEDE '14), Atlanta, Georgia. 10.1145/2616498.2616568. Acceptance rate: 67% 	2014
 Feldhausen, R., Bell, R.S., Andresen, D.A. (2013, November). "Introducing HPC to Young Students" Poster presented at the International Conference for High Performance Computing, Networking, Storage and Analysis 2013 (SC13), Denver, Colorado. Acceptance rate: 39% 	2013
Other Selected Papers & Posters	
 Feldhausen, R., Bell, R.S., Andresen, D.A. (2013, September). "Introducing HPC and Multi-Threaded Computing to Middle School Girls using Scratch." Poster presented at 2013 Midwest Section Conference of the American Society for Engineering Education (ASEE), Salina, Kansas. 3rd Place Award for Best Graduate Poster. 	2013
Invited Talks	
 "Computer Science in the Real World" at K-State Have a Byte 2019 Described new Computational Core curriculum Explained motivation behind course design Encouraged audience to check out free demo 	2019

 "Computer Tear-Down Workshop" for K-State ACM Women in Computing (ACM-W) Demonstrated how to disassemble and reassemble a computer Describe how each part of the computer functions Give tips on purchasing new equipment and safety 	2015-2016
 "Technology Petting Zoo" adult session at Kansas 4-H Ambassador Training Hands-on demonstration of new technologies and devices Focused mainly on 4-H parents' and volunteers' needs and questions 	2010-2014, 2016
 "Technology == Change" at Marshall Co. KS Extension Council Board Meeting Discuss the many links between technology and extension 	2015
 "New Technologies and their Role in the Workplace" guest lecture for K-State New Media Technology (AGCOM 590) class Covered many upcoming technologies in media and elsewhere Gave class a better understanding of technology affecting their field 	2011
 "Using Technology Every Day, Everywhere" at KSRE Youth Development Program Focus Team retreat Discussed a variety of topics important for professional staff Gave many tips and tricks to use technology in staff's daily routine 	2011
 "Technology Petting Zoo" at Kansas 4-H Foundation's Friends of 4-H Day Demonstrated new devices and websites to 4-H Foundation donors Answered questions from donors about how 4-H is using technology 	2009
Selected Presentations	
 "Building Creativity" at Kansas 4-H Youth Leadership Forum Teach 4-H youth activities and ideas to help build their creativity 	2015- 2016
 "Effective Use of Social Media" at Kansas 4-H Ambassador Training Shared social media tips and ideas with 4-H ambassadors Discussed topics such as online bullying and social media research 	2015
 "Lessons Learned from Teaching" at National Extension Technology Conference (NETC) Share tips and tricks for training sessions based on my experience teaching 	2014
 Computer support roundtable session at National Extension Technology Conference (NETC) (with others) Invite colleagues from other institutions to share advice and ideas Helped moderate discussion and coordinate session 	2009- 2012
 "Cool Computer Support Tools" at National Extension Technology Conference (NETC) (with others) Share tools used in our office for computer support and maintenance 	2012

 "AJAX Based Web Form Creator and Database Host System" Senior Project Presentation Presented information gained from reviewing existing papers Described and demonstrated how to use the system created Gave information on possible future work and improvement on project 	2008
 "Implementing a Two-Phase Algorithm for Solving a Rubik's Cube" Honors Project Presentation Described research on Rubik's cube algorithm found online Explained how I implemented that algorithm independently in Java Showed how completed algorithm was designed to be efficient and demonstrated its use 	2008
Service Activities	
 Reviewer for ACM Special Interest Group on Computer Science Education (SIGSCE) 	2016- Present
 Faculty Co-Advisor for Kansas Gamma Chapter of Tau Beta Pi 	2016-2017
 Faculty Advisor for K-State Web Development Club 	2015-2017
 Kansas STARBASE Program Presented sessions about computer programming for Kansas youth Introduced high performance computing and led tours of the Beocat supercomputer at K-State 	2015-2017
 Faculty Co-Advisor for K-State Association for Computing Machinery (ACM) Student Chapter 	2014-2017
 Computer Science Department Open House Advisor Coordinated department student groups and events for open house Worked with student led committee to promote department 	2013-2017
 Computer Science Undergraduate Advising & Recruitment Cmte. Discussed and provided guidance on issues related to recruiting and advising undergraduate students in computer science 	2013-2017
 Kansas 4-H Discovery Days Taught classes on programming and computer science to 4-H teens 	2014-2016
 USD 383 Summer STEM Camp Collaborated with teachers from USD 383 (Manhattan) and K-State College of Education students to develop curriculum materials Taught 4 weeks of classes to grade and middle school students Trained teachers to be more comfortable teaching programming Collected research data to rate effectiveness of the course 	2014-2016
 Kansas 4-H Photography Judge Provided ratings, critiques and feedback to youth 4-H photographers at many 4-H events throughout the year Met with 4-H youths in person to discuss how to improve their work 	2014- Present

• K-State Office for the Advancement of Women in Science and Engineering (KAWSE) GROW & EXCITE Outreach Programs

 Presented lessons about computer science and high-performance computing to middle and high school girls