1. **Academic History**

  1.1. **Name:** Michael E. Cotterell

  1.2. **Present Rank:** Lecturer; **Recommended Rank:** Senior Lecturer

  1.3. **Allocation of Effort:** 90% Teaching; 10% Service

  1.4. **Tenure Status:** Non-Tenure-Track

  1.5. **Administrative Title:** N/A

  1.6. **Graduate Faculty Status:** Not Graduate Faculty

  1.7. **Highest Degree:** Ph.D. in Computer Science, University of Georgia   December 2017

  ○ Michael E. Cotterell. 2017. *Supporting Open Science in Big Data Frameworks and Data Science Education.* Doctoral Dissertation. Department of Computer Science, University of Georgia, Athens, GA, USA, (December 2017). DOI: 10724/37663⬀. Committee: John A. Miller (Advisor), Maria Hybinette, Yi Hong, and Thiab Taha; Also mentored by: Ping Ma

  1.8. **Academic Positions:**

  ○ Instructor Limited Term, UGA   Fall 2015 – Summer 2017
  ○ Lecturer Limited Term, UGA   Fall 2017 – Fall 2017
  ○ Lecturer, UGA   Spring 2018 – Now

  1.9. **Other Professional Employment:**

  ○ GLA (Lab Instructor), Department of Computer Science, UGA   Fall 2011 – Spring 2012
  ○ GRA (Research Assistant), Department of Computer Science, UGA   Fall 2011 – Fall 2012
  ○ Research Intern, National Renewable Energy Lab, Golden, CO, USA   Summer 2012
  ○ Educ. Prog. Specialist, CTEGD, Institute of Bioinformatics, UGA   Summer 2013
  ○ GTA (Instructor of Record), Department of Computer Science, UGA   Fall 2012 – Summer 2015

  1.10. **Post-Graduate Awards:**

  ○ Teaching Excellence in CS Award, Department of Computer Science, UGA   2018
  ○ Online Learning Fellow, Office of Online Learning, UGA   2018 –2019
  ○ Writing Fellow, Center for Teaching and Learning, UGA   2018 – 2019
  ○ Excellence in Undergraduate Teaching Award Finalist, Franklin College, UGA   2019
  ○ Teaching Academy Fellow, Teaching Academy, UGA   2019 – 2020
  ○ Faculty Teaching Excellence Award, Department of Computer Science, UGA   2020

2. **Instruction**

  2.1. **Courses Taught:**

  ○ Note: Sections with one lecture are combined unless their numbers differ.
  ○ Key: **C** = Credit Hours; **E** = Enrollment; **P** = Individual Credit Hours Produced

Year	Term	Number	Name	C	E	P
2020	Summer	CSCI 2610	Discrete Mathematics for CS (Online)	4.0	69	276.00
2020	Summer	CSCI 3030E	Computing, Ethics, and Society (Online)	3.00	111	333.00
			Continued on next page.			

Year	Term	Number	Name	C	E	P
2020	Summer	CSCI 5007	Internship in CS Business/Industry	3.00	12	36.00
2020	Summer	CSCI 4960	Faculty Mentored Research in CS	4.00	2	4.00
2020	Summer	CSCI 6950	Directed Study in CS	4.00	1	4.00
2020	Spring	CSCI 1302	Software Development	4.00	90	360.00
2020	Spring	CSCI 1302	Software Development	4.00	53	212.00
2020	Spring	CSCI 3030	Computing, Ethics, and Society	3.00	120	360.00
2020	Spring	CSCI 4960	Faculty Mentored Research in CS	4.00	3	12.00
2020	Spring	CSCI 6950	Directed Study in CS	2.00	1	2.00
2019	Fall	CSCI 1302	Software Development	4.00	79	316.00
2019	Fall	CSCI 1302	Software Development	4.00	59	236.00
2019	Fall	CSCI 3030	Computing, Ethics, and Society	3.00	118	354.00
2019	Summer	CSCI 3030E	Computing, Ethics, and Society (Online)	3.00	48	144.00
2019	Summer	CSCI 2610	Discrete Mathematics for CS	4.00	42	168.00
2019	Summer	CSCI 5007	Internship in CS Business/Industry	3.00	15	45.00
2019	Summer	HONS 4800H	Honors Capstone Internship	3.00	1	3.00
2019	Spring	CSCI 1302	Software Development	4.00	100	400.00
2019	Spring	CSCI 1302	Software Development	4.00	89	356.00
2019	Spring	CSCI 4730	Operating Systems	4.00	51	204.00
2019	Spring	CSCI 1302	Software Development	4.00	31	124.00
2019	Spring	CSCI 6730	Operating Systems	4.00	12	48.00
2019	Spring	CSCI 4950	Directed Study in CS	2.00	1	2.00
2018	Fall	CSCI 1302	Software Development	4.00	93	372.00
2018	Fall	CSCI 1302	Software Development	4.00	82	328.00
2018	Fall	CSCI 4300	Web Programming	4.00	62	248.00
2018	Fall	CSCI 1302	Software Development	4.00	47	188.00
2018	Fall	CSCI 4960	Faculty Mentored Research in CS	2.00	1	2.00
2018	Summer	CSCI 2610	Discrete Mathematics for CS	4.00	37	74.00
2018	Summer	CSCI 3030	Computing, Ethics, and Society	3.00	33	99.00
2018	Summer	CSCI 2670	Introduction to Theory of Computing	4.00	21	84.00
2018	Summer	CSCI 4950	Directed Study in CS	4.00	1	4.00
2018	Spring	CSCI 1302	Software Development	4.00	100	400.00
2018	Spring	CSCI 1302	Software Development	4.00	98	392.00
2018	Spring	CSCI 1302	Software Development	4.00	88	352.00
2018	Spring	CSCI 4760	Computer Networks	4.00	73	292.00
2018	Spring	CSCI 4950	Directed Study in CS	4.00	1	4.00
2017	Fall	CSCI 1302	Software Development	4.00	82	328.00
2017	Fall	CSCI 1302	Software Development	4.00	81	324.00
2017	Fall	CSCI 1302	Software Development	4.00	45	180.00
2017	Summer	CSCI 3030	Computing, Ethics, and Society	3.00	36	108.00
2017	Spring	CSCI 2610	Discrete Mathematics for CS	4.00	87	348.00
2017	Spring	CSCI 1730	Systems Programming	4.00	120	480.00
2017	Spring	CSCI 1730	Systems Programming	4.00	59	236.00
2016	Fall	CSCI 3030	Computing, Ethics, and Society	3.00	120	360.00
2016	Fall	CSCI 1730	Systems Programming	4.00	114	456.00
2016	Fall	CSCI 1730	Systems Programming	4.00	97	388.00

Continued on next page.

Year	Term	Number	Name	C	E	P
2016	Summer	CSCI 1730	Systems Programming	4.00	41	164.00
2016	Summer	CSCI 2610	Discrete Mathematics for CS	4.00	40	160.00
2016	Summer	CSCI 3030	Computing, Ethics, and Society	3.00	30	90.00
2016	Spring	CSCI 1302	Software Development	4.00	90	360.00
2016	Spring	CSCI 1302	Software Development	4.00	85	340.00
2016	Spring	CSCI 3030	Computing, Ethics, and Society	3.00	121	363.00
2015	Fall	CSCI 1302	Soft Development	4.00	84	336.00
2015	Fall	CSCI 1302	Soft Development	4.00	80	320.00
2015	Fall	CSCI 1730	Systems Programming	4.00	120	480.00

Courses taught between Fall 2012 – Summer 2015 available upon request.

2.2. Development of New Courses and Programs:

- CSCI 3030E Computing, Ethics, and Society   Proposed: Fall 2018; Status: Approved
  - Developed, in part, through participation with the UGA Office of Online Learning as a 2018 – 2019 Online Learning Fellow.
  - The first offering of this course was in Summer 2019.
- CSCI 1300 Introduction to Programming with Python   Proposed: Fall 2019; Status: Approved
  - Developed to help provide an easier entry-point for non-majors as well as those who want a bridge into our introductory sequence.
  - The first offering of this course is planned for Fall 2020.
  - Approved to satisfy Area III Quantitative Reasoning in the General Education Core Curriculum.
- Computer Science Undergraduate Assistant (CSUA) Program   Proposed: 2019; Status: Approved
  - Competitive non-credit Experiential Learning Requirement (ELR) opportunity for undergraduate CS majors who have demonstrated excellence in their lower division courses.
  - The Fall 2019 cohort is the first to receive ELR credit through this program.

2.3. Supervision of Graduate Student Research:

- Matthew Pooser (MS-Thesis in CS, UGA)   2020
  - Current Placement: Enrolled at UGA
  - Project: Dray Delosier, Matthew Pooser, and Michael E. Cotterell. An Active Implementation of a 3D Graphics Engine. Summer 2020 CSCI 4960 Project, (2020)
  - Project: Michael Runyan, Matthew Pooser, and Michael E. Cotterell. Social Cryptolytics Pipeline. Summer 2020 CSCI 4960 Project, (2020)
- Matthew Chapman (MS-NonThesis in CS, UGA)   2020
  - Graduation Date: May 2020
  - Project: Bailey Nelson, Matthew Chapman, and Michael E. Cotterell. Analyzing Varying Complexity on Q-Learning. Spring 2020 CSCI 4960 Project; 2020 UGA CURO Symposium Submission, (2020). `https://michaelcotterell.com/research/directed-study/b-nelson.html`
  - Project: Yimin Yan, Ziwei Wang, Matthew Chapman, and Michael E. Cotterell. Obstacles Faced by International Asian Students when Pursuing Degrees in Computer Science. Spring 2020 CSCI 4960 Project; 2020 UGA CURO Symposium Submission, (2020). `https://michaelcotterell.com/research/directed-study/y-yan-z-wang.html`

2.4. **Graduate Student Advisory Committee Membership:**

- Caleb Adams (MS-Thesis in CS, UGA)   2019 – 2020
  - Graduation Date: May 2020
  - Current Placement: Enrolled at UGA

2.5. **Supervision of Undergraduate Research:**

- Michael Runyan (BS in Biological Sciences Engineering, UGA – Minor in CS)   2018, 2020
  - Current Placement: Enrolled at UGA
  - Project: Michael Runyan, Matthew Pooser, and Michael E. Cotterell. Social Cryptolytics Pipeline. Summer 2020 CSCI 4960 Project, (2020)
  - Project: Michael Runyan and Michael E. Cotterell. Social Cryptolytics. Summer 2018 CSCI 4950 Project; Fall 2018 CSCI 4960 Project, (2018). `https://michaelcotterell.com/research/directed-study/m-runyan.html`⤤

- Dray Delosier (UGA)   2020
  - Current Placement: Enrolled at UGA
  - Project: Dray Delosier, Matthew Pooser, and Michael E. Cotterell. An Active Implementation of a 3D Graphics Engine. Summer 2020 CSCI 4960 Project, (2020)

- Bailey Nelson (BS in CS, UGA)   2020
  - Current Placement: Enrolled at UGA
  - Project: Bailey Nelson, Matthew Chapman, and Michael E. Cotterell. Analyzing Varying Complexity on Q-Learning. Spring 2020 CSCI 4960 Project; 2020 UGA CURO Symposium Submission, (2020). `https://michaelcotterell.com/research/directed-study/b-nelson.html`⤤

- Yimin Yan (BS in CS & BBA in MIS, UGA)   2020
  - Current Placement: Enrolled at UGA
  - Project: Yimin Yan, Ziwei Wang, Matthew Chapman, and Michael E. Cotterell. Obstacles Faced by International Asian Students when Pursuing Degrees in Computer Science. Spring 2020 CSCI 4960 Project; 2020 UGA CURO Symposium Submission, (2020). `https://michaelcotterell.com/research/directed-study/y-yan-z-wang.html`⤤

- Ziwei Wang (BS in CS, UGA)   2020
  - Current Placement: Enrolled at UGA
  - Project: Yimin Yan, Ziwei Wang, Matthew Chapman, and Michael E. Cotterell. Obstacles Faced by International Asian Students when Pursuing Degrees in Computer Science. Spring 2020 CSCI 4960 Project; 2020 UGA CURO Symposium Submission, (2020). `https://michaelcotterell.com/research/directed-study/y-yan-z-wang.html`⤤

- Kevin Bonanno (BBA in MIS, UGA – Minor in CS)   2019
  - Current Placement: Pursuing MS in CS at GA Tech
  - Project: Michael E Cotterell, Sujeet Kulkarni, Kevin Bonanno, and Dat Le-Phan. 2019. ScalaTion Kernel. Version 1.2.1. MIT License⤤. PyPI. GitHub. Zenodo. Department of Computer Science, University of Georgia, Athens, GA, USA, (April 22, 2019). DOI: `10.5281/zenodo.3581441`⤤. `https://pypi.org/project/scalation-kernel/1.2.1/`⤤

- Dat Le-Phan (BS in CS, UGA)   2018
  - Current Placement: Employed at Virtual Mindset Inc., Atlanta, GA, USA
  - Project: Michael E Cotterell, Sujeet Kulkarni, Kevin Bonanno, and Dat Le-Phan. 2019. ScalaTion Kernel. Version 1.2.1. MIT License⤤. PyPI. GitHub. Zenodo. Department of Computer Science, University of Georgia, Athens, GA, USA, (April 22, 2019). DOI: `10.5281/zenodo.3581441`⤤. `https://pypi.org/project/scalation-kernel/1.2.1/`⤤

2.6. **Internship Supervision:**

- As Director of the Computer Science Undergraduate Assistant (CSUA) Program:
  – Fall 2019: 27
  – Spring 2020: 37
  – Summer 2020: 6
- CSCI 5007 Internship in CS Business/Industry:
  – Summer 2019: 15
  – Summer 2020: 12
- HONS 4800H Honors Capstone Internship:
  – Summer 2019: 1

2.7. **Instructional Grants Received:**

- $5,000. University of Georgia (UGA)   2019
  – Bradley J. Barnes (PI), Michael E. Cotterell (Co-PI). Creation of interactive tutorials to replace current text in CSCI 1302 Software Development. Provost's 2019 Affordable Course Materials Grant ☑.
- $10,800. Affordable Learning Georgia (ALG)   2019 – 2020
  – Michael E. Cotterell (PI), Bradley J. Barnes (Co-PI). Open & Active Course Materials for Software Development. Textbook Transformation Grant, Round Fourteen ☑.

2.8. **Recognition and Outstanding Achievements:** See §1.10.

2.9. **Academic Advising:** N/A

2.10. **Professional Development:** N/A

○ Training: Lab Safety Basics	August 8, 2018
○ Faculty Learning Series: How to Stay Sane as a New Faculty Member	August 10, 2018
○ Training: Social & Behavioral Research	November 9, 2018
○ Training: OneSource: Manager Self-Service for Supervisors	December 13, 2018
○ Fellowship: Online Learning Fellow, Office of Online Learning, UGA	2018 – 2019
○ Fellowship: Writing Fellow, Center for Teaching and Learning, UGA	2018 – 2019
○ Training: Conflict of Interest	June 28, 2019
○ Faculty Learning Series: Faculty Search Committee Training	October 3, 2019
○ Training: USG Ethics	November 6, 2019
○ Training: USG CyberSecurity Awareness	November 6, 2019
○ Fellowship: Teaching Academy Fellow, Teaching Academy, UGA	2019 – 2020
○ SEER Center: Theoretical Frameworks to Guide Qualitative Analysis	February 13, 2020
○ SEER Center: Conducting Interviews	February 20, 2020
○ SEER Center: Survey Construction & Analysis	February 27, 2020
○ Training: Human Trafficking Awareness	February 28, 2020
○ SEER Center: Publishing in Education Research	April 15, 2020
○ Training: Protect UGA: COVID-19 Required Training for Supervisors	June 11, 2020
○ Training: Protect UGA: COVID-19 Required Training for Faculty and Staff	August 3, 2020
○ Faculty Cohort: Creating a Sustainable Writing Practice, Write@UGA	2020 – 2021

3. **Scholarly Activities / Creative Work**

For most joint endeavors, the first author is the primary research contributor and main author of the work, the other authors are those who made significant contributions to the research or work, and, when applicable, the final author is the academic adviser. Please also note that in many areas within computer science, conferences (not journals) are the primary publication venues.

	All	**Since 2015**
Citations	92	81
h-index	6	5
i10-index	3	3

Key: ⋆ = Externally Peer-Reviewed

3.1. **Publications:**

3.1.(a) Books Authored or Co-authored: N/A

3.1.(b) Books Edited and Co-edited: N/A

3.1.(c) Chapters in Books: N/A

3.1.(d) Monographs: N/A

3.1.(e) Journal Articles: 1

- ⋆ Mustafa V Nural, Michael E Cotterell, Hao Peng, Rui Xie, Ping Ma, and John A Miller. 2015. Automated Predictive Big Data Analytics Using Ontology Based Semantics. *International Journal of Big Data*, 2, 2, (October 2015), 43–56. ISSN: 2326-4411. DOI: `10.29268/stbd.2015.2.2.4`☒

3.1.(f) Bulletins or Reports: 3

- ○ Michael E. Cotterell. 2017. *Supporting Open Science in Big Data Frameworks and Data Science Education.* Doctoral Dissertation. Department of Computer Science, University of Georgia, Athens, GA, USA, (December 2017). DOI: `10724/37663`☒. Committee: John A. Miller (Advisor), Maria Hybinette, Yi Hong, and Thiab Taha; Also mentored by: Ping Ma

- ○ Michael E. Cotterell and Terrance Medina. 2013. A Markov Model for Ontology Alignment. Technical report. Term paper, CSCI 8370 Advanced Database Systems, December 2012. (April 2013). arXiv: `1304.5566 [cs]`☒

- ○ Michael E. Cotterell, John A. Miller, and Tom Horton. 2011. Unicode in Domain-Specific Programming Languages for Modeling & Simulation: ScalaTion as a Case Study. Technical report. (December 2011). arXiv: `1112.1751 [cs]`☒

3.1.(g) Abstracts: 3

- ⋆ Michael E. Cotterell, Delaram Yazdansepas, and Bradley J. Barnes. 2020. Improving Student Sentiment of Active Learning in CS. in *Proceedings of the 2020 ACM Conference on International Computing Education Research* (ICER '20). Extended Abstract; Poster. Association for Computing Machinery, Virtual Event, New Zealand, 308. DOI: `10.1145/3372782.3408120`☒

- ⋆ Michael E. Cotterell, Bradley J. Barnes, and Delaram Yazdansepas. 2020. Active Learning in CS2 and Discrete Mathematics. In *Proceedings of the 51st ACM Technical Symposium on Computer Science Education* (SIGCSE'20). Extended Abstract; Poster. Portland, OR, USA, 1318. DOI: `10.1145/3328778.3372618`☒

- ⋆ Michael E. Cotterell, John A. Miller, Jun Han, and Tom Horton. 2012. SimOptDSL: Extending ScalaTion, a Domain-Specific Language for Modeling & Simulation, for Simulation Optimization. In *Proceedings of the AlaSim International Modeling and Simulation Conference & Exhibition* (AlaSim'12). Extended Abstract. Alabama Modeling & Simulation Council (AMSC), Hunstville, AL, USA, (May 2012)

3.1.(h) Book Reviews: N/A

3.1.(i) Patents: N/A

3.1.(j) Works Submitted but Not Yet Accepted: N/A

3.1.(k) Any Other: 1

○ Michael E Cotterell. 2019. Featured SoTL Article. In *SoTL November 2019 Newsletter*. Colleen M Kuusinen, editor. Center for Teaching and Learning, University of Georgia, Athens, GA, USA. Article Review. (December 17, 2019), 1–1. `https://mailchi.mp/28c94434c868/sotl-april2019-newsletter-1306477`

3.1.(l) Creative Contributions Other Than Formal Publications: 8

Text-Based Open Educational Resources (OERs)

○ Michael E. Cotterell and Bradley J. Barnes. 2019. *CSCI 1302 Code Style Guide*. CC BY-NC-ND 4.0. GitHub. Zenodo. Department of Computer Science, University of Georgia, Athens, GA, USA, (August 18, 2019), 761 lines of text ≈ **16 pages** (∼50 lines per page). DOI: `10.5281/zenodo.3370471`. `https://github.com/cs1302uga/cs1302-styleguide`

– Edition: 2019fa; DOI: `10.5281/zenodo.3579521`
– Edition: 2019su; DOI: `10.5281/zenodo.3370472`

○ Michael E. Cotterell and Bradley J. Barnes. 2019. *CSCI 1302 Tutorials*. CC BY-NC-ND 4.0. GitHub. Zenodo. Department of Computer Science, University of Georgia, Athens, GA, USA, (August 3, 2019), 7785 lines of text ≈ **156 pages** (∼50 lines per page), not including supplemental full code examples. DOI: `10.5281/zenodo.3359638`. `https://github.com/cs1302uga/cs1302-tutorials/tree/v2019su`

– Edition: 2019fa; DOI: `10.5281/zenodo.3579499`
– Edition: 2019su; DOI: `10.5281/zenodo.3359639`

○ Michael E. Cotterell and Bradley J. Barnes. 2019. *CSCI 1302 Class Exercises*. CC BY-NC-ND 4.0. GitHub. Zenodo. Department of Computer Science, University of Georgia, Athens, GA, USA, (April 26, 2019), 6737 lines of text ≈ **135 pages** (∼50 lines per page), not including supplemental full code examples. DOI: `10.5281/zenodo.2652509`. `https://github.com/cs1302uga/cs1302-exercises/tree/v2019sp`

– Edition: 2019fa; DOI: `10.5281/zenodo.3579498`
– Edition: 2019sp; DOI: `10.5281/zenodo.2652510`

Video-Based Open Educational Resources (OERs)

○ Michael E. Cotterell. 2019. *CSCI 1302 Video: Generic Method Example*. Online Video. CC BY 4.0. Youtube. Zenodo. Department of Computer Science, University of Georgia, Athens, GA, USA, (September 20, 2019). DOI: `10.5281/zenodo.3691734`. `https://youtu.be/B6fCVtWHXXI`

○ Michael E. Cotterell. 2019. *CSCI 1302 Video: Method Overrides*. Online Video. CC BY 4.0. Youtube. Zenodo. Department of Computer Science, University of Georgia, Athens, GA, USA, (August 25, 2019). DOI: `10.5281/zenodo.3691742`. `https://youtu.be/v5q1OCuCv8c`

○ Michael E. Cotterell. 2019. *CSCI 1302 Video: Brief Inheritance Introduction*. Online Video. CC BY 4.0. Youtube. Zenodo. Department of Computer Science, University of Georgia, Athens, GA, USA, (August 25, 2019). DOI: `10.5281/zenodo.3691752`. `https://youtu.be/V5Y85rfMfPw`

○ Michael E. Cotterell. 2019. *CSCI 1302 Video: Handling Exceptions*. Online Video. CC BY 4.0. Youtube. Zenodo. Department of Computer Science, University of Georgia, Athens, GA, USA, (August 21, 2019). DOI: `10.5281/zenodo.3691762`. `https://youtu.be/vGnbfns3Zuc`

Software

○ Michael E Cotterell, Sujeet Kulkarni, Kevin Bonanno, and Dat Le-Phan. 2019. ScalaTion Kernel. Version 1.2.1. MIT License ☒. PyPI. GitHub. Zenodo. Department of Computer Science, University of Georgia, Athens, GA, USA, (April 22, 2019). DOI: 10.5281/zenodo.3581441 ☒. https://pypi.org/project/scalation-kernel/1.2.1/ ☒

3.2. **Grants Received:** N/A; see also §2.7

3.3. **Recognition and Outstanding Achievements:** N/A

3.4. **Supervision of Student Research:** See §2.3 and §2.5

3.5. **Convention Papers / Proceedings:** 9

⋆ Hao Peng, Santosh U. Bobade, Michael E. Cotterell, and John A. Miller. 2018. Forecasting Traffic Flow: Short Term, Long Term, and When It Rains. In *Proceedings of the 2018 IEEE International Congress on Big Data* (BIGDATACONGRESS'18). Seattle, WA, USA, 57–71. DOI: 10.1007/978-3-319-94301-5_5 ☒

⋆ John A. Miller, Hao Peng, and Michael E. Cotterell. 2017. Adding Support for Theory in Open Science Big Data. In *Proceedings of the 2017 IEEE World Congress on Services* (SERVICES'17). Honolulu, HI, USA, 71–75. DOI: 10.1109/SERVICES.2017.20 ☒

⋆ Mustafa V. Nural, Michael E. Cotterell, and John A. Miller. 2015. Using Semantics in Predictive Big Data Analytics. In *Proceedings of the 2015 IEEE International Congress on Big Data* (BIG-DATACONGRESS'15). New York, NY, USA, 254–261. ISBN: 978-1-4673-7278-7. DOI: 10.1109/BigDataCongress.2015.43 ☒

⋆ John A. Miller, Michael E. Cotterell, and Stephen J. Buckley. 2013. Supporting a Modeling Continuum in ScalaTion: From Predictive Analytics to Simulation Modeling. In *Proceedings of the 2013 Winter Simulation Conference* (WSC'13). IEEE, Washington, DC, USA, (December 2013), 1191–1202. ISBN: 978-1-4799-3950-3. DOI: 10.1109/WSC.2013.6721507 ☒

⋆ Qin Sun, Aaron Beach, Michael E. Cotterell, Zhengkai Wu, and Santiago Grijalva. 2013. An Economic Model for Distributed Energy Prosumers. In *Proceedings of the 46*th *Hawaii International Conference on System Sciences* (HICSS'13). IEEE, Wailea, HI, USA, (January 2013), 2103–2112. ISBN: 978-1-4673-5933-7. DOI: 10.1109/HICSS.2013.81 ☒

⋆ Qin Sun, Michael E. Cotterell, Aaron Beach, and Santiago Grijalva. 2012. The Fundamental Value of Information and Strategy in Stochastic Management of Distributed Energy Storage. In *Proceedings of the 2012 North American Power Symposium* (NAPS'12). IEEE, Champaign, IL, USA, (September 2012), 1–6. ISBN: 978-1-4673-2308-6. DOI: 10.1109/NAPS.2012.6336385 ☒

⋆ Zhengkai Wu, Michael E. Cotterell, Sun Qin, Aaron Beach, and Santiago Grijalva. 2012. Towards a Cloud Infrastructure for Energy Informatics. In *Proceedings of the 2012 Energy Informatics Conference* (EI'12). Volume 12. All Sprouts Content. 494. Association for Information Systems (AIS), Atlanta, GA, USA, (August 2012). https://aisel.aisnet.org/sprouts_all/494 ☒

⋆ Michael E. Cotterell, Jie Zheng, Sun Qin, Zhengkai Wu, Craig Champlin, and Aaron Beach. 2012. Facilitating Knowledge Sharing and Analysis in Energy Informatics with the Ontology for Energy Investigations (OEI). in *Proceedings of the 2012 Energy Informatics Conference* (EI'12). Volume 12. All Sprouts Content. 494. Association for Information Systems (AIS), Atlanta, GA, USA, (August 2012). https://aisel.aisnet.org/sprouts_all/491 ☒

⋆ Alok Dhamanaskar, Michael E. Cotterell, Jie Zheng, Jessica C. Kissinger, Christian J. Stoeckert Jr., and John A. Miller. 2012. Suggestions for Galaxy Workflow Design Using Semantically Annotated S ervices. In *Proceedings of the Seventh International Conference on Formal Ontology in Information Systems* (FOIS'12). Gray, Austria, 29–42. ISBN: 978-1-61499-084-0. DOI: 10.3233/978-1-61499-084-0-29 ☒

3.6. **Presentations:**

3.6.(a) **Invited Seminars / Lectures:**

- Bradley J. Barnes and Michael E. Cotterell. 2019. Flipping CSCI 1302. In *Flipped Classroom Meet-N-Greet*. Invited Talk. Center for Teaching and Learning, University of Georgia, Athens, GA, 30602, USA, (March 27, 2019)

3.6.(b) **Conference Talks:**

- ⋆ Michael E. Cotterell, John A. Miller, Jun Han, and Tom Horton. 2012. SimOptDSL: Extending ScalaTion, a Domain-Specific Language for Modeling & Simulation, for Simulation Optimization. In *Proceedings of the AlaSim International Modeling and Simulation Conference & Exhibition* (AlaSim'12). Extended Abstract. Alabama Modeling & Simulation Council (AMSC), Hunstville, AL, USA, (May 2012)

3.6.(c) **Poster Presentations:**

- ⋆ Michael E. Cotterell, Delaram Yazdansepas, and Bradley J. Barnes. 2020. Improving Student Sentiment of Active Learning in CS. in *Proceedings of the 2020 ACM Conference on International Computing Education Research* (ICER '20). Extended Abstract; Poster. Association for Computing Machinery, Virtual Event, New Zealand, 308. DOI: `10.1145/3372782.3408120` ⧉
- ⋆ Michael E. Cotterell, Bradley J. Barnes, and Delaram Yazdansepas. 2020. Active Learning in CS2 and Discrete Mathematics. In *Proceedings of the 51st ACM Technical Symposium on Computer Science Education* (SIGCSE'20). Extended Abstract; Poster. Portland, OR, USA, 1318. DOI: `10.1145/3328778.3372618` ⧉

4. **Public Service:**

4.1. **Extension:**

- Judge: Georgia Science & Engineering Fair (GSEF)   March 2020
- Judge: Georgia Science & Engineering Fair (GSEF)   March 2016
- Judge: Georgia Technology Student Association (TSA) 2012 State Conference   March 2012

4.2. **International Programs:** N/A

4.3. **Local Community Services and Relations:**

- Bradley J. Barnes and Michael E. Cotterell. 2017. Computer Science in College and Beyond. In *AP CS Guest Lecture*. Invited Talk. Clarke Central High School, 350 South Milledge Avenue, Athens, GA, 30605, USA, (August 18, 2017)

4.4. **To Governmental and Nongovernmental Agencies:** N/A

5. **Professional Service:**

5.1. **Service to Professional Societies and Governmental or Nongovernmental Agencies:**

- Member: Association for Computing Machinery (ACM)
- Member: ACM Special Interest Group on Computer-Human Interaction (SIGCHI)
- Member: ACM Special Interest Group on Computer Science Education (SIGCSE)

5.2. **Committee Memberships for Learned Publications and Conferences:**

- Program Committee Member (Papers): The 25th Annual ACM Conference on Innovation and Technology in Computer Science Education (ITiCSE 2020). Trondheim, Norway (June 2020).

- Program Committee Member (Track 1: Data Science and Its Applications): The 11th International Conference on Information and Communication Systems (ICICS 2020) Irbid, Jordan (April 2020).
- Program Committee Member: The 2020 Southern Data Science Conference (SDSC 2020). Atlanta, GA, USA (April 2020).
- Program Committee Member (Workshops): The 51st ACM Technical Symposium on Computer Science Education (SIGCSE 2020). Portland, Oregon, USA (March 2020).
- Workshop Co-Chair: The 4th Open Science in Big Data Workshop (OSBD 2019), part of the IEEE International Conference on Big Data (IEEE BigData'19). Los Angeles, CA, USA (December 2019).
- Program Committee Member: The 2019 International Conference on Web Services (ICWS 2019). San Diego, CA, USA (June 2019).
- Research Track Steering Committee Member: The 2019 Southern Data Science Conference (SDSC 2019). Atlanta, GA, USA (April 2019).
- Program Committee Member (Workshops, ACM Student Research Competition): The 50th ACM Technical Symposium on Computer Science Education (SIGCSE 2019). Minneapolis, MN, USA (February 2019).
- Program Committee Member: The 3rd Open Science in Big Data Workshop (OSBD 2018), part of the IEEE International Conference on Big Data (IEEE BigData'18). Seattle, WA, USA (December 2018).
- Program Committee Member: The 2018 Southern Data Science Conference (SDSC 2018). Atlanta, GA, USA (April 2018).
- Program Committee Member (Workshops): The 49th ACM Technical Symposium on Computer Science Education (SIGCSE 2018). Baltimore, MD, USA (February 2018). https://sigcse2018.sigcse.org
- Program Committee Member: The 2nd Open Science in Big Data Workshop (OSBD 2017), part of the IEEE International Conference on Big Data (IEEE BigData'17). Boston, MA, USA (December 2017).

5.3. Ad Hoc Manuscript Reviewer:

- ACM Inroads (Magazine)   2020
- PLOS ONE (Journal)   2018, 2019

5.4. Grant Review Panel Member:

- National Science Foundation (NSF)   2018, 2020

5.5. External Evaluator of Promotion / Tenure Dossier: N/A

5.6. Departmental, College, or University Service:

5.6.(a) Departmental:

- Director: Computer Science Undergraduate Assistant (CSUA) Program
- Member: CS Instructional Action Team: Department and Leadership Teams for Action (DeLTA); Part of "Transforming STEM Education at a Research 1 University through Multi-Level Action Teams" NSF Award #1821023.
- Member: ABET Assessment Committee
- Member: Program Review & Assessment Committee
- Member: Curriculum Committee

5.6.(b) College: N/A

5.6.(c) University:

- Member: University Council   July 2020 – June 2023
- Affiliate Member: Scientists Engaged in Educational Research (SEER) Center   2019 – Now

5.7. Special Administrative Assignments: N/A

5.8. **Service to Student Groups and Organizations:**

5.8.(a) **Faculty Sponsor:**
- UGA Hacks
- UGA Esports

5.8.(b) **Judging:**

UGA Hacks 5	February 2020
Demosthenian & Phi Kappa Inter-Society Debate	March 2019
UGA Hacks 4	February 2019
UGA Hacks 3	February 2018
UGA Hacks 2	November 2016

5.8.(c) **Coaching:**

UGA ACM-ICPC	Fall 2015
UGA ACM-ICPC	Fall 2012

5.8.(d) **Invited Panels:**
- Alice Schoonbroodt, Hamid Arabnia, Michael E. Cotterell, and Jason Anastasopoulos. 2020. The Future of Automation Panel. In *Meeting of the Data for Good Student Group*. Terry College of Business, University of Georgia, Athens, GA, 30602, USA, (February 26, 2020). `https://uga.campuslabs.com/engage/organization/ugadataforgood`
- Nicole Lazar, Michael E. Cotterell, Abolfazl Farahani, and Saber Soleymani. 2019. Facial Recognition Software Panel. In *Meeting of the Data for Good Student Group*. Terry College of Business, University of Georgia, Athens, GA, 30602, USA, (November 12, 2019). `https://uga.campuslabs.com/engage/organization/ugadataforgood`

5.9. **Service to Support Units:** N/A