

Clément Aubert

Curriculum vitae

School of Computer and Cyber Sciences
Augusta University, Augusta, GA 30912, USA
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Research Interests

Programming languages, Types theory, Complexity, Automata, Concurrent systems, Category theory, Proof theory, Reversible computation, Static analysis, Abstract interpretation

Current & Previous Positions, Education

- 08/2017–present **Assistant Professor**, *Augusta University, School of Computer and Cyber Sciences & The Graduate School*
- 10/2015–08/2017 **Postdoctoral Researcher & Instructor**, *Appalachian State University, Computer Science Department*, funded by the NSF grant 1420175 and the College of Arts & Science
- 09/2014–09/2015 **Postdoctoral Researcher & Instructor**, *INRIA, SPADES – Université Paris-Est (UPEC, Paris 12), Laboratoire d’Algorithmique, Complexité et Logique (LACL)*, funded by the ANR Rever & Faculté des Sciences et technologie
- 09/2013–08/2014 **Postdoctoral Researcher**, *CNRS – Aix-Marseille Université, Institut de Mathématiques de Marseille (I2M) – UMR 7373 CNRS, Logique de la Programmation (LDP) team*, funded by the ANR ReCré
- 09/2010–08/2013 **Ph.D. in Computer Science, with the highest honours (“mention Très honorable”)**, “*LINEAR LOGIC AND SUB-POLYNOMIAL CLASSES OF COMPLEXITY*”, *École Doctorale Galilée (146) – Université Paris 13 – Laboratoire d’Informatique de Paris Nord (LIPN), UMR 7030*
Defended on 26th November 2013, composition of the panel:
Mr. Patrick Baillot CNRS, ENS Lyon (Examiner)
Mr. Arnaud Durand Université Denis Diderot - Paris 7 (Chair)
Mr. Ugo Dal Lago INRIA, Università degli Studi di Bologna (Examiner)
Ms. Claudia Faggian CNRS, Université Paris Diderot - Paris 7
Mr. Stefano Guerrini Institut Galilée - Université Paris 13 (Supervisor)
Mr. Jean-Yves Marion LORIA, Université de Lorraine
Mr. Paul-André Melliès CNRS, Université Paris Diderot - Paris 7
Mr. Virgile Mogbil Institut Galilée - Université Paris 13 (Co-supervisor)
- 09/2009–09/2010 **M.S. in Mathematics, cum laude**, *Université Paris 7 – Denis Diderot*
Mathematical Logic and Computer Science Foundations (LMFI), specializations in Proof Theory (P.-L. Curien) and Lambda-Calcul (T. Joly)
- 09/2007–09/2010 **B.S. in Philosophy**, *Université Paris 1*
Logic, Philosophy, History and Sociology of Sciences (LOPHISS), specialization in Logic
- 09/2005–09/2006 **Three-years Degree in History**, *Université de Reims*
- 09/2000–09/2005 **Baccalauréat in sciences with distinction in German, then Khâgne & Hypokhâgne (Preparatory classes to the grandes écoles, focused on Humanities)**, *Jean-Jaurès – Reims*

Languages

- French 🇫🇷 Mother tongue, skills in typography
- English 🇬🇧 Perfectly read and understood, fluent speaker, TOIEC’s score: 975/990 (expired in 2015)
- German 🇩🇪 Goethe Institut’s *Zertifikat Deutsch* in 2002, specialization and distinction in high school
- Russian 🇷🇺 Basic concepts

Publications (Selection)

(Emphasized names are students.)

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Refereed Journals

- 2023 **Aubert, C.** “The Correctness of Concurrencies in (Reversible) Concurrent Calculi”. In: *Journal of Logical and Algebraic Methods in Programming*, p. 100924. ISSN: 2352-2208. DOI: 10.1016/j.jlamp.2023.100924. hal: hal-03950347.
- 2022 **Aubert, C.** and Daniele Varacca. “Processes Against Tests: On Defining Contextual Equivalences”. In: *Journal of Logical and Algebraic Methods in Programming*, p. 100799. ISSN: 2352-2208. DOI: 10.1016/j.jlamp.2022.100799. hal: hal-03535565.
- 2018 **Aubert, C.** and Marc Bagnol. “Unification and Logarithmic Space”. In: *Logical Methods in Computer Science* 14.3. DOI: 10.23638/LMCS-14(3:6)2018.
- 2016 **Aubert, C.** and Ioana Cristescu. “Contextual equivalences in configuration structures and reversibility”. In: *Journal of Logical and Algebraic Methods in Programming* 86.1, pp. 77–106. ISSN: 2352-2208. DOI: 10.1016/j.jlamp.2016.08.004.
- Aubert, C.** and Thomas Seiller. “Characterizing co-NL by a group action”. In: *Mathematical Structures in Computer Science* 26 (04), pp. 606–638. ISSN: 1469-8072. DOI: 10.1017/S0960129514000267.
- Aubert, C.** and Thomas Seiller. “Logarithmic space and permutations”. In: *Information & Computation* 248, pp. 2–21. ISSN: 0890-5401. DOI: 10.1016/j.ic.2014.01.018.

Selective Conferences

- 2023 **Aubert, C.** “Replications in Reversible Concurrent Calculi”. In: *Reversible Computation (RC 2023)*. Vol. 13960. LNCS. Springer. ISBN: 978-3-031-38099-0. DOI: 10.1007/978-3-031-38100-3_2. hal: hal-04174437.
- Aubert, C.**, Thomas Rubiano, *Neea Rusch*, and Thomas Seiller. “Distributing and Parallelizing Non-canonical Loops”. In: *Verification, Model Checking, and Abstract Interpretation (VMCAI 2023)*. Vol. 13881. LNCS. Springer, pp. 1–24. DOI: 10.1007/978-3-031-24950-1_1. hal: hal-03669387.
- Aubert, C.**, Thomas Rubiano, *Neea Rusch*, and Thomas Seiller. “pymwp: A Static Analyzer Determining Polynomial Growth Bounds”. In: *Automated Technology for Verification and Analysis*. Ed. by Étienne André and Jun Sun. Cham: Springer Nature Switzerland, pp. 263–275. ISBN: 978-3-031-45332-8. DOI: 10.1007/978-3-031-45332-8_14.
- Aubert, C.** and *Peter Browning*. “Implementation of a Reversible Distributed Calculus”. In: *Reversible Computation (RC 2023)*. Vol. 13960. LNCS. Springer, pp. 210–217. ISBN: 978-3-031-38099-0. DOI: 10.1007/978-3-031-38100-3_13. hal: hal-04174439.
- 2022 **Aubert, C.** “Concurrencies in Reversible Concurrent Calculi”. In: *Reversible Computation (RC 2022)*. Vol. 13354. LNCS. Springer, pp. 146–163. ISBN: 978-3-031-09004-2. DOI: 10.1007/978-3-031-09005-9_10. hal: hal-03605003.
- Aubert, C.**, E Andrew Balas, Tiffany Townsend, *Noah Sleeper*, and *CJ Tran*. “Data Integration for the Study of Outstanding Productivity in Biomedical Research”. In: *International Conference on Current Research Information Systems (CRIS 2022)*. Vol. 211. Procedia Computer Science. Elsevier, pp. 196–200. DOI: 10.1016/j.procs.2022.10.191.
- Aubert, C.**, Ross Horne, and Christian Johansen. “Diamonds for Security: A Non-Interleaving Operational Semantics for the Applied Pi-Calculus”. In: *Concurrency Theory (CONCUR 2022)*. Vol. 243. LIPICS. Schloss Dagstuhl - Leibniz-Zentrum für Informatik, 30:1–30:26. DOI: 10.4230/LIPIcs.CONCUR.2022.30.
- Aubert, C.**, Thomas Rubiano, *Neea Rusch*, and Thomas Seiller. “mwp-Analysis Improvement and Implementation: Realizing Implicit Computational Complexity”. In: *Formal Structures for Computation and Deduction (FSCD 2022)*. Vol. 228. LIPIcs. Schloss Dagstuhl - Leibniz-Zentrum für Informatik, 26:1–26:23. DOI: 10.4230/LIPIcs.FSCD.2022.26.
- 2021 **Aubert, C.** and Dorian Medić. “Explicit Identifiers and Contexts in Reversible Concurrent Calculus”. In: *Reversible Computation (RC 2021)*. Vol. 12805. LNCS. Springer, pp. 144–162. ISBN: 978-3-030-79836-9. DOI: 10.1007/978-3-030-79837-6_9.

- 2020 **Aubert, C.** and Ioana Cristescu. “How Reversibility Can Solve Traditional Questions: The Example of Hereditary History-Preserving Bisimulation”. In: *Concurrency Theory (CONCUR 2020)*. Vol. 2017. LIPIcs. Schloss Dagstuhl - Leibniz-Zentrum für Informatik, 13:1–13:24. DOI: 10.4230/LIPIcs.CONCUR.2020.13.
- 2016 **Aubert, C.**, Marc Bagnol, and Thomas Seiller. “Unary Resolution: Characterizing Ptime”. In: *Foundations of Software Science and Computation Structures (FOSSACS 2016)*. Vol. 9634. LNCS. Springer, pp. 373–389. DOI: 10.1007/978-3-662-49630-5_22.
- 2014 **Aubert, C.** and Marc Bagnol. “Unification and Logarithmic Space”. In: *Rewriting and Typed Lambda Calculi (RTA-TLCA 2014)*. Vol. 8650. LNCS. Springer, pp. 77–92. DOI: 10.1007/978-3-319-08918-8_6. hal: hal-01005698.
- Aubert, C.**, Marc Bagnol, Paolo Pistone, and Thomas Seiller. “Logic Programming and Logarithmic Space”. In: *Asian Symposium on Programming Languages and Systems (APLAS 2014)*. Vol. 8858. LNCS. Springer, pp. 39–57. DOI: 10.1007/978-3-319-12736-1_3. hal: hal-01005698.

Editorship

- 2023 **Aubert, C.**, Cinzia Di Giusto, Simon Fowler, and Larisa Safina, eds. *Proceedings 16th Interaction and Concurrency Experience*. Vol. 380. Open Publishing Association. DOI: 10.4204/EPTCS.380. URL: <https://cgi.cse.unsw.edu.au/~eptcs/content.cgi?ICE2023>.
- 2022 **Aubert, C.**, Cinzia Di Giusto, Larisa Safina, and Alceste Scalas, eds. *Proceedings 15th Interaction and Concurrency Experience (ICE)*. Vol. 365. Open Publishing Association. DOI: 10.4204/EPTCS.365. URL: <https://cgi.cse.unsw.edu.au/~eptcs/content.cgi?ICE2022>.

Workshops With Published Proceedings

- 2022 **Aubert, C.**, Ross Horne, and Christian Johansen. “Bisimulations Respecting Duration and Causality for the Non-interleaving Applied π -Calculus”. In: *Expressiveness in Concurrency and Structural Operational Semantics (EXPRESS / SOS 2022)*. Vol. 368. EPTCS. Open Publishing Association, pp. 3–22. DOI: 10.4204/EPTCS.368.1.
- 2021 **Aubert, C.** and Daniele Varacca. “Processes, Systems & Tests: Defining Contextual Equivalences”. In: *Interaction and Concurrency Experience (ICE 2021)*. Vol. 347. EPTCS. Open Publishing Association, pp. 1–21. DOI: 10.4204/EPTCS.347.1.
- 2015 **Aubert, C.** and Ioana Cristescu. “Reversible Barbed Congruence on Configuration Structures”. In: *Interaction and Concurrency Experience (ICE 2015)*. Vol. 189. EPTCS. Open Publishing Association, pp. 68–95. DOI: 10.4204/EPTCS.189.7.
- 2011 **Aubert, C.** “Sublogarithmic uniform Boolean proof nets”. In: *Developments in Implicit Computational Complexity (DICE 2011)*. Vol. 75. EPTCS. Open Publishing Association, pp. 15–27. DOI: 10.4204/EPTCS.75.2.

Software

- 2023 **Aubert, C.**, Thomas Rubiano, *Neea Rusch*, and Thomas Seiller. *pymwp: MWP analysis in Python*. Version 0.4.2. URL: <https://github.com/statycc/pymwp/>.
- Aubert, C.** and *Peter Browning*. *Implementation of Reversible Distributed Calculus*. Version 4.3.9.2. URL: <https://github.com/CinRC/IRDC-CCSK/>.
- 2022 **Aubert, C.**, Thomas Rubiano, *Neea Rusch*, and Thomas Seiller. *Loop Fission Benchmarks*. Version 1.1. DOI: 10.5281/zenodo.7080144. URL: <https://github.com/statycc/loop-fission>.
- Sleeper, Noah* and **C. Aubert**. *Data Integration for the Study of Outstanding Productivity in Biomedical Research*. Version 1.0.0. URL: <https://github.com/popbr/data-integration>.
- 2021 **Aubert, C.**, Thomas Rubiano, *Neea Rusch*, and Thomas Seiller. *LQICM On C Toy Parser*. Version 3.0.0. URL: https://github.com/statycc/LQICM_On_C_Toy_Parser.

Awards

- 2023 CURS Mentor of Excellence Award – This award “recognize[s] and show[s] appreciation to one faculty member annually who has shown excellence in mentoring one or more undergraduate students in research or scholarship.”

Students Some of the awards awarded to my student Neea Rusch can be found in her cv.

Reviews and PC

Chair

- Interaction and Concurrency Experience (ICE 2022, 2023 and 2024)
- The Southeast Regional Programming Languages seminar (SERPL) in 2019, 2020 (canceled due to the pandemic) and 2023

PC Member

- Open Education Conference (OER 2023)
- Open Education Southern Symposium (OESS 2022)
- Reversible Computation (RC 2022 and 2023)
- NETworked sYSTems (Netys 2019)
- Logic and Computational Complexity (LCC 2016)
- Developments in Implicit Computational Complexity (DICE 2015)

Reviewer for **Conferences & Workshops**

- Italian Conference on Theoretical Computer Science (ICTCS 2014 and 2023)
- National Conference on Undergraduate Research (NCUR 2021 and 2023)
- Foundations of Software Science and Computation Structures (FoSSaCS 2015, 2016 and 2023)
- Formal Structures for Computation and Deduction (FSCD 2022)
- Fourth Annual Posters at the Georgia State Capitol,
- Computer Science Logic (CSL 2022)
- Mathematical Foundations of Programming Semantics (MFPS 2021)
- Georgia Undergraduate Research Conference (GURC 2020 and 2021)
- Open Education Conference (OpenED 2021 and 2022)
- Reversible Computation (RC 2021)
- Logic in Computer Science (LICS 2021)
- Linearity & Trends in Linear Logic and its Applications (Linearity & TLLA 2020)
- Foundations of Software Technology and Theoretical Computer Science (FSTTCS'19)
- Concurrency Theory (CONCUR 2016 and 2020)
- Implementation and Application of Functional Languages (IFL 2016)
- Automata, Languages and Programming (ICALP 2015)

Journals

- "ACM Transactions on Computational Logic"
- "Electronic Proceedings in Theoretical Computer Science",
- "Journal of Logical and Algebraic Methods in Programming"
- "Mathematical Structures in Computer Science"
- "Information & Computation"
- "Fundamenta Informaticae"
- "Logical Methods in Computer Science"
- "Pedagogy Opened: Innovative Theory and Practice"

Societies

- the American Mathematical Society
- zbMATH

Foundations

- National Science Foundation, Panel reviewer (2020 and 2023)
- Affordable Learning Georgia (Textbook Transformation Grant), in 2019 and 2021.

Funded Grants

Total: \$1.2M	<i>I am the only PI on the grants in bold, senior key personnel on the others unless indicated as co-PI.</i>
2023, \$6.7k	The French in Higher Education Program from the French Embassy in the United States
2023, \$13.6k	Summer Scholars Program from the Center for Undergraduate Research & Scholarship
2023, \$582.6k	SHF:Small:Concurrency In Reversible Computations from the NSF – CCF
2022, \$3.6k	Summer Scholars Program from Center for Undergraduate Research & Scholarship
2021, \$10k	Research Scholarship Creative Activity from Augusta University
2021, \$608k	NIH and NSF SCISIPBIO grant
2021, \$30k	Affordable Materials Grants from Affordable Learning Georgia
2020, \$20k	Transatlantic Research Partnership from FACE Foundation - co-PI with Th. Seiller
2020, \$3k	Summer Scholars Program from Center for Undergraduate Research & Scholarship
2019, \$2.8k	Textbook Transformation Grant from Affordable Learning Georgia
2018, \$5k	Special funds allocated by the NSF for the organization of the Southeast Regional Programming Languages Seminar (SERPL 2019) - co-PI with H. Eades
2016, \$1k	Research Development Travel Grant from the Appalachian State University
2014, 1.5k€	PICS: Logique linéaire et applications award to visit U. Dal Lago in Bologna
2011, 0.5k€	GDR IM's "Visiting PhD student" program - co-PI with Th. Seiller

Teaching Experiences









"F" stands for "Fall", "S" for "Spring", and the number of students enrolled is indicated.

Augusta U. (graduate)	CSCI 8940 - Dissertation Research , S 2022 (1), Summer 2022 (1), F 2022 (1), S 2023 (1)
	CSCI 8720 - Problems in Computer and Cyber Sciences , F 2021 (1)
	STAT 7880 - Special Topics , S 2021 (1)
	CSCI 6910 - Master's Thesis Research , S 2021 (1), S 2022 (1)
	CSCI 6800 - Compiler Writing , F 2021 (2)
Augusta U. (undergraduate)	CURS 4990 A - Undergrad Research III , Summer 2020 (1), Summer 2022 (1), Summer 2023 (3)
	CSCI 4990 - Undergraduate Research , F 2022 (1)
	CSCI 4800 - Compiler Writing , F 2021 (8)
	CSCI 3410 - Database Systems , F 2017 (6), S 2018 (17), S 2019 (8), F 2019 (18), S 2020 (17), F 2020 (15), S 2021 (20), F 2021 (14)
	CSCI 3271 - Operating System I , F 2017 (40), F 2018 (17)
ASU	CS1440 - Computer Science I , F 2016 (79)
	CSCI 1301 - Principles of Computer Programming I , S 2018 (58), F 2018 (31), S 2019 (56), F 2019 (61), F 2020 (49), S 2022 (45), F 2022 (95), S 2023 (152)
UPEC	Initiation to Algorithm and Complexity , S 2015 (25)
	Imperative Programming , F 2014 (25)
Paris 13	Databases , S 2013 (22)
	System Administration & Network , S 2012 (25), S 2013 (25)
	Software Engineering , S 2011 (28), S 2012 (24)
	Algorithms and Programming , F 2011 (25)
	New Ways of Learning Mathematics , F 2010 (14)

Computer Skills

O.S.	Linux, macOS, Windows	Editing	L ^A T _E X, TikZ, markdown
Lang.	Java, C, C#, SQL, shell scripts, notions in COQ and ProLog	Web dvpmnt	HTML5, CSS3, W3C's specs, WAI, PHP, MySQL, ...




International Visits & Exchanges

- Jul. 2023  Visit to Ross Horne and the SaToSS team to work on privacy protocols – Entirely funded by the host institution. (3 days)
- Apr. 2023  Visit to Ivan Lanese and the Focus team – Funded by the Research Scholarship & Creativity Activity Program and the CinRC project (4 days)
- Apr. 2023  Visit to Jorge A. Pérez and the Fundamental Computing group – Funded by the Research Scholarship & Creativity Activity Program and the CinRC project (4 days)
- Nov. 2021  Dagstuhl Event 21453 (Organizer)– Funded by the Transatlantic Research Partnership from the FACE Foundation and the Graduate School of Augusta University (5 days)
- June 2016  Visit to the NSF Headquarters, Arlington, VA (US) – Funded by a Research Development Travel Grant (2 days)
- Aug. 2014  Visit to J. G. Simonsen to work on Implicit Computational Complexity and Algebraic Characterizations – Datalogisk Institut, Copenhagen, funded by the COLA Project (1 week)
- Nov. 2012  Visit to U. Dal Lago to work on Quantum Calculus, Geometry of Interaction and Implicit Complexity – FoCUS, Bologna, funded by the PICS project Logique linéaire et applications (2 weeks)
- Mar. 2011  Exchange with Th. Seiller to work on Operator algebra and Complexity – Institut Mathématiques de Luminy, Université d’Aix-Marseille, funded by the GDR-IM (1 week)

Contributed and Seminar Talks (Selection)

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- 2023  SRM Seminar – University of Luxembourg
-  15th Conference on Reversible Computation (RC 2023) – Technische Universität Mittelhessen
-  Bologna University Departmental Seminar – Università Di Bologna
-  Bernoulli Institute Computer Science Colloquium – University of Groningen
- 2022  International Conference on Current Research Information Systems (CRIS 2022) – on-line
-  14th Conference on Reversible Computation (RC 2022) – Università degli Studi di Urbino Carlo Bo
- 2020  International Conference on Concurrency Theory (CONCUR 2020) – on-line (Video)
-  Workshop on Interaction and Concurrency Experience (ICE 2020) – on-line (Video)
- 2019  11th International School on Rewriting – École des Mines
-  Southeast Regional Programming Languages Seminar (SERPL 2019) – School of Computer & Cyber Sciences – Augusta University
- 2015  Elica meeting – Laboratoire d’Informatique de Paris Nord (LIPN) – Université Paris 13
- 2014  Algorithmic, Complexity and Logic Laboratory (LACL) seminar – Université Paris-Est Créteil (UPEC)
-  Seminar of the *Methodes formelles* team – Laboratoire lorrain de recherche en informatique et ses applications (Loria), Université de Lorraine
- 2013  International Workshop Logic and Computational Complexity (LCC) – Università di Torino
-  Complexité, Logique et Informatique (CLI) seminar – Équipe de Logique Mathématique, Université Paris 7
-  Young Researchers’ seminar – LIPN
- 2012  9th project meeting of the ANR Implicit Computational Complexity, Concurrency and Extraction (Complice) – LIPN
-  LDP seminar – Institut de Mathématiques de Luminy (IML), Aix-Marseille Université
-  Foundations of Component-based Ubiquitous Systems (FoCUS) Meeting – Università Di Bologna
-  Logic and Interactions 2012 – Centre International de Rencontres Mathématiques (CIRM)

- 2011  International Workshop Second Workshop on Developments in Implicit Computational Complexity (Dice 2011) – Saarbrücken, ETAPS 2011
 Multidisciplinary research group *Vérité et preuves* – Université Paris 1
 16th meeting of the Logique, Algèbre et Calcul (LAC) group – Preuves, Programmes, Systèmes (PPS), Université Paris 7

Talks / Abstracts / Posters by Students (Selection)

- P. Browning Reversible Computation 2023, Giessen, Germany, 07/19/2023
 Phi Kappa Phi Student Research and Fine Arts Conference, Augusta University, 03/30/2022
 Cybersecurity Education, Research, and Training Symposium – Abstract accepted but talk not given
 TECHNET 2022 Research Poster Show, Convention Center, 08/15-18/2022
 SSP Symposium, Augusta University, 07/22/2022
- M. Holcomb Phi Kappa Phi Student Research and Fine Arts Conference, online, 03/31/2021
- J. Weeks SSP Symposium, Augusta University, 07/20/2023
- I. Yelle SSP Symposium, Augusta University, 07/20/2023
- E. Schomacker SSP Symposium, Augusta University, 07/20/2023
- N. Rusch Graduate Research Day, online, 03/26/2021
 Graduate Research Day, Augusta University, 04/01/2022 – Award for Excellence in Research – Computer & Cyber Sciences
 IRISA and LIPN Seminars, France, 11/2021
 Types 2022, University of Nantes, France, 06/20/2022
 SLASH’s Doctoral Symposium, Auckland, New Zealand, 12/06/2022
 VMCAI, Boston, 01/16/2023
 CoqPL, Boston, 01/21/2023
 SCOT Seminar, On-line, 03/10/2023
- A. Sellak Graduate Research Day – Abstract accepted but talk not given
 National Conference on Undergraduate Research – Abstract accepted but talk not given
 2020 Georgia Undergraduate Research Conference, online, 10/23–24/2020
- J. Natale 10th Anniversary of the CURS Summer Scholar Symposium, online, 07/16/2020









Supervised Students


This list does not account for the ± 50 teaching assistants I supervised nor for the ± 10 students I academically advise.

- PhD (advisor) Neea Rusch – Static Analyses of Program Flows: Types and Certificate for Complexity (Oct. 2020 - Present)
- PhD (com. member) Peter Hanukaev – Semantically and Practically Generalizing Graded Modal Types, supervised by H. Eades (Fev. 2023 - Present)
 William Cocke – Repair relationships between structures, supervised by P. Attie (May 2023 - Present)
- MS Assya Sellak – Static Analyses of Program Flows: Types and Certificate for Complexity (Aug. 2020 - Mar. 2021)
 Mark Holcomb – The Implicit Computational Complexity Flavor of Automata (Fall 2021 - Spring 2022)
- MS (com. member) Adam Mansour – Investigation of existing Eye Tracked Virtual Reality Keyboards and Introduction of AMSwipe (Spring 2023, supervised by J. Orlosky)
- Honors Thesis Adam Reynolds – Data Integration for the Study of Outstanding Productivity in Biomedical Research (Fall 2023 – Present)

	Noah Sleeper – Distinguishing practices of outstanding performances and extensions in biomedical research (Fall 2021 – Fall 2022)
	CJ Tran – Evaluating lab performances across various universities (in-field reader, Fall 2021 – Spring 2023)
	Jake Tuten – Implementation of Graded Type Systems (in-field reader, Spring 2021)
Capstone	Peter Browning, Brett Williams and John Yalch – Implementing Reversible Concurrent Programs Specification Languages (Spring 2023)
	Justice Howley, Jason Weeks and Ian Yelle – Program Analysis and Manipulations in Compilers (Spring 2023)
	(Redacted), Mark Holcomb, Assya Sellak, Sydney Strong and Patrick Woolard – Feature Implementation for Open-Source Pandoc Filters (Fall 2020)
	Bobby Mcmanus, Minh Nguyen and Poonam Veeral, Augusta University, CSCI 4712 - Senior Capstone Project, Lecture Notes for CSCI 3410 Database Systems (Spring 2020)
Undergrad.	Ethan Schomacker – Data Integration to Improve Productivity in Biomedical Research (Summer 2023)
	Jason Weeks and Ian Yelle (research meetings shadowed by Kaavya Menon, student at GATech) – Program Analysis and Manipulations in Compilers (Summer 2023)
	Peter Browning – An Implementation of Reversible Distributed Calculus (Spring 2022 – Spring 2023)
	Mark Holcomb – An in-between "implicit" and "explicit" complexity: Automata (Spring 2021)
	John Natale – Connecting Concurrent Computations (Summer 2020)
	Assya Sellak, Augusta University, Implicit Computational Complexity for Compilers (Spring & Summer 2020)
	Assya Sellak, Augusta University (co-supervised by H. Eades), Toward a Graded Light Logic (Spring 2020)
	Crystal Anderson, Augusta University, Edition of lecture notes (Fall 2019 & Spring 2020)
	John Natale, Augusta University (Mathematics major), Formalization of the correspondence between event structures and CCS (Fall 2019–Summer 2020)
High-School	Hunter Wilkins, Greenbrier High School, Analysis and Implementation of the NEAT algorithm (Spring 2017)

Summer & Winter Schools

2021-06-14 12 days	 Annual Oregon Programming Languages Summer School on Foundations of Programming and Security – Eugene, with lectures by S. Balzer, U. Dal Lago, R. Harper, ...
2019-07-01 6 days	 11th International School on Rewriting – Paris, with lectures by A. Middeldorp, G. Dowek, Y. Lafont, ...
2016-03-13 6 days	 From Theory to Practice of Algebraic Effects and Handlers , Dagstuhl Seminar 16112, with lectures by A. Bauer, A. Filinski, G. Plotkin, A. Simpson, ...
2014-02-10 5 days	 Mathematical Structures of Computation, Concurrency, Logic and Types – Lyon, with lectures by U. Dal Lago, M. Hofmann, L. Ong, D. Sandiorgi, ...
2014-04-07 12 days	 Sémantique des preuves et des programmes et formalisation des mathématiques – Luminy, with lectures by A. Miquel, T. Coquand, P.-L. Curien, ...
2012-06-05 4 days	 Réalisabilité à Chambéry #5 on Realizability – Bourget du Lac, with lectures by A. Miquel, M. Hofmann, J.-L. Krivine, H. Herbelin, ...
2011-11-07 5 days	 Workshop on Linear Logic on Geometry of Interaction, Traced Monoidal Categories and Implicit Complexity – Kyoto, with lectures by J.-Y. Girard, S. Guerrini, U. Dal Lago, ...
2011-06-16 16 days	 10th Annual Oregon Programming Languages Summer School on Types, Semantics and Verification – Eugene, with lectures by H. Herbelin, X. Leroy, P. Melliès, B. Pierce, D. Scott, ...

2011-03-17  **École d'été de l'ANR Logoi** on Geometry of Interaction, Operator Algebra – Carry-le-Rouet, 3 days with lectures by P.-L. Curien and J.-Y. Girard.

Services

- 2023–present Member of the ad-hoc PACT Workgroup for the Office of Faculty Affairs (Augusta University)
Faculty advisor for the $\Delta\Delta\Delta$ student organization.
- 2022 Reviewer for the Research, Scholarship & Creative Activity (RSCA) Award
- 2022–present Member of the ad-hoc committee for Louis K. Bell Research Award (Augusta University)
- 2021–present Member of the CURS Faculty Advisory Committee (Augusta University)
- 2020–present Member of the Undergraduate Courses & Curriculum Committee (School of Computer and Cyber Science)
Member of the Web Oversight Committee (School of Computer and Cyber Science)
Ad-hoc committee on reviewing and assessing the current CSCI 1301/1302 course series (School of Computer and Cyber Science)
- 2019–present Champion of the Affordable Learning Georgia Initiative (University System of Georgia)
- 2019–2023 Mentor for the African American Male Initiative (Augusta University)
- 2018–present Member of the Graduate School (Augusta University)
- 2021–2022 Member of the Graduate Courses & Curriculum Committee (School of Computer and Cyber Science)
- 2020–2021 Member of the Course Evaluation Project / Faculty/Student Impact team – Lead of workgroup (Augusta University)
- 2018–2020 Member of the Faculty Development Committee (Augusta University)
- 2012 Invited by the Evaluation Agency for Research and Higher education (AERES) to the panel of representative Ph.D. students during the evaluation of the Laboratoire d'Informatique de Paris Nord (LIPN), Paris 13.
- 2014 Guest invited at a mid-term meeting with the Agence Nationale de la Recherche (ANR) regarding the Logic and Geometry of Interaction (Logoi) project.