

Cleveland Waddell

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Education

- Jan 2015 **Ph.D. Applied Mathematics**, *North Carolina State University*, Raleigh, NC,
Apr 2019 Advisor: Erich Kaltofen.
Jan 2010 **B.A. Mathematics and Computer Science**, *CUNY Baccalaureate for Unique
and Interdisciplinary Studies*, New York, NY, Magna Cum Laude.
Dec 2012
Jan 2008 **A.S. Computer Science**, *Medgar Evers College (CUNY)*, Brooklyn, NY,
Dec 2010 Magna Cum Laude.

Professional Positions

- May 2022 **Research and Development Cybersecurity**, *Sandia National Laboratories*, Al-
Present buquerque, NM.
Jan 2020 **Research and Development Computer Science**, *Sandia National Laboratories*,
May 2022 Albuquerque, NM.
Aug 2019 **Visiting Assistant Professor of Mathematics and Computer Science**, *The
Dec 2019 Evergreen State University*, Olympia, WA.
Jan 2015 **Research Assistant in The Department of Mathematics**, *North Carolina State
May 2019 University*, Raleigh, NC.
Aug 2012 **Teaching Assistant in The Department of Mathematics**, *North Carolina State
Dec 2014 University*, Raleigh, NC.

Research Interests

*Symbolic Computation, Computer Algebra, Linear Algebra, Coding Theory, Data Sci-
ence, Cybersecurity.*

Publications

- [1] Erich L. Kaltofen, Clément Pernet, Arne Storjohann, and Cleveland Waddell. Early termination in parametric linear system solving and rational function vector recovery with error correction. In *Proceedings of the International Symposium on Symbolic and Algebraic Computation*, pages 237–244. ACM, 2017.
- [2] Erich L. Kaltofen and Cleveland Waddell. Deterministic decoding of interleaved Reed-Solomon codes. Manuscript - April, 2019.
- [3] Cleveland Waddell. Parametric linear system solving with error correction. page 161. 2019.

Awards

- Jun 2018 **The Angela E. Grant Poster Award for Best Algorithm**, *Conference for African American Researchers in Mathematical Sciences*.

Jul 2016 **The Angela E. Grant Poster Award for Best Algorithm**, *Conference for African American Researchers in Mathematical Sciences*.

Computer Skills

Languages Maple, Python, C++, MATLAB.

Research Positions

Jun-Aug 2014 **Research Assistant – NSF-REG**, *North Carolina State University*, Raleigh, NC, Research Experience for Graduate Students under Dr. Erich Kaltofen.

Jun-Aug 2013 **Research Assistant – NSF-REG**, *North Carolina State University*, Raleigh, NC, Research Experience for Graduate Students under Dr. Hoon Hong.

Jun-Aug 2011 **Mathematics Department Summer Research**, *Medgar Evers College*, Brooklyn, NY, Derivation of the Subrings of $M_3(\mathbb{R})$ under Dr. Homeira Pajooesh.

Sept-Dec 2010 **Louis Stokes Alliance for Minority Participation**, *Medgar Evers College (CUNY)*, Brooklyn, NY, Assessment of Ocean Mixing Parameterization for Climate Studies under Dr. Armando Howard.

Conferences and Presentations

Jul 2018 **Talk: Parametric Linear System Solving with Error Correction**, *Conference for African American Researchers in Mathematical Sciences*, Princeton, NJ.

Jul 2018 **Poster: Parametric Linear System Solving with Error Correction**, *Conference for African American Researchers in Mathematical Sciences*, Princeton, NJ.

Jul 2018 **Talk: Parametric Linear System Solving with Error Correction**, *SIAM Annual Meeting, Workshop Celebrating Diversity*, Portland, OR.

Jul 2017 **Talk: Early Termination in Parametric Linear System Solving**, *International Symposium on Symbolic and Algebraic Computation*, Kaiserslautern, Germany.

Jun 2017 **Poster: Early Termination in Parametric Linear System Solving**, *Conference for African American Researchers in Mathematical Sciences*, Ann Arbor, Michigan.

Jun 2016 **Poster: Rational Function Vector Recovery with Error Correction**, *Conference for African American Researchers in Mathematical Sciences*, Princeton, NJ.

Nov 2015 **Talk: Rational Function Vector Recovery with Error Correction and Cabay Termination**, *Thematic Program on Computer Algebra Seminar*, Toronto, Canada.

Jul 2015 **Poster: Parametric Linear System Solving with Error Correction and Cabay Termination**, *International Symposium on Symbolic and Algebraic Computation*, Bath, UK.

Jun 2011 **Poster: Assessment of Ocean Mixing Parameterization for Climate Studies**, *Conference for African American Researchers in Mathematical Sciences*, Los Angeles, CA.

May 2010 **Poster: Assessment of Ocean Mixing Parameterization for Climate Studies**, *Louis Stokes Alliance for Minority Participation*, Brookhaven, NY.

Volunteer Work

Jul 2016-2018,2022 **Instructor**, *Queen's College Summer Math Institute (QCSMI)*, Queen's College, Georgetown, Guyana.

Sept 2014-2017 **Math Doesn't Bug Me Event**, *Bug Fest*, Museum of Natural Sciences, Raleigh, NC.

Nov-Mar 2016-2018 **Assistant Coach**, *Raleigh Senior Boys Basketball League*, Laurel Hills, Raleigh, NC.

Nov-Dec 2019 **Assistant Coach**, *Tumwater Boys Basketball League*, Tumwater Parks and Recreation, Tumwater, WA.

Affiliations

American Mathematical Society (AMS), Society for Industrial and Applied Mathematics (SIAM), The Association for Computing Machinery (ACM) Special Interest Group on Symbolic and Algebraic Manipulation.