

## Res. Asst. PhD T LAY AYYILDIZ AKOĐLU

### Personal Information

Email: tulayaa@ktu.edu.tr

### International Researcher IDs

ORCID: 0000-0001-9445-2240

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### Education Information

Doctorate, North Carolina State University, School Of Sciences, Applied Mathematics, United States Of America 2010 - 2016

Postgraduate, Clemson University, School Of Sciences, Mathematical Sciences, United States Of America 2008 - 2010

Undergraduate, Ankara University, Fen Fak ltesi, Matematik, Turkey 2001 - 2006

### Foreign Languages

English, C1 Advanced

### Certificates, Courses and Trainings

Education Management and Planning, Akademik D zeyde Bilimsel Arařtırma Projesi Hazırlama EĐitimi, KT  TTO, 2019

### Dissertations

Doctorate, Certifying Solutions to Polynomial Systems over  $\mathbb{Q}$ , North Carolina State University, School Of Sciences, Mathematics, 2016

### Research Areas

Mathematics, Computer Science, Algebraic Geometry, Linear and Multilinear Algebra: Matrix Theory, Natural Sciences

### Academic Titles / Tasks

Research Assistant PhD, Karadeniz Technical University, Fen Fak ltesi, Matematik, 2017 - Continues

### Courses

Matematiksel Hesaplama, Undergraduate, 2018 - 2019

## Published journal articles indexed by SCI, SSCI, and AHCI

### I. Certified Hermite matrices from approximate roots

AYYILDIZ AKOĞLU T., Szanto A.

Journal of Symbolic Computation, vol.117, pp.101-118, 2023 (SCI-Expanded)

## Refereed Congress / Symposium Publications in Proceedings

### I. Certification of Approximate Roots of Polynomial Systems

AYYILDIZ AKOĞLU T., Szanto A.

SIAM Conference on Applied Algebraic Geometry, Atlanta, United States Of America, 31 July - 04 August 2017

### II. Constructing exact Hermite matrices using approximate roots

AYYILDIZ AKOĞLU T.

Joint Mathematics Meetings, Atlanta, United States Of America, 4 - 07 January 2017

### III. Certifying Solutions of Polynomial Systems

AYYILDIZ AKOĞLU T.

AMS Southeastern Sectional Meeting, Athens, Greece, 5 - 06 March 2016

## Metrics

Publication: 4