



## Curriculum Vita

**Instructor:** Mehmet Celik  
**Academic Department:** Mathematics

**University Address:** Department of Mathematics  
Binnion Hall room 323,  
Texas A&M University-Commerce  
Commerce, TX 75429-3011

**Office Phone:** 903-886-5944  
**University Email Address:** Mehmet.Celik@tamuc.edu

### EDUCATION

**Texas A&M University, College Station, TX** Ph.D. - Mathematics, 2008  
**Advisor:** Emil Straube

*Primary research area:* Complex Analysis in Several Variables;

*Secondary research area:* Partial Differential Equations and Operator Theory.

*Research Interest:* Compactness and Regularity of the  $\bar{\partial}$ -Neumann Problem, Hankel Operators, Toeplitz Operators, Hilbert-Schmidt operators.

*Additional research interest:* Math Education.

### TEACHING EXPERIENCE

**08/2018 –** Associate Professor of Mathematics, Texas A&M University  
-Commerce, TX

**08/2015 – 08/2018** Assistant Professor of Mathematics, Texas A&M University  
-Commerce, TX

**08/2010 – 08/2015** Assistant Professor of Mathematics, Un. of North Texas  
at Dallas, TX

**08/2008 – 08/2010** Assistant Professor of Mathematics, Un. of Arkansas  
at Fort Smith, AR

## PUBLICATIONS

1. Clos, T. G, **Celik, M.** & Sahutoglu, S. (2018). Compactness of Hankel operators with symbols continuous on the closure of pseudoconvex domains. *Integral Equations and Operator Theory*, no. 6, 90:71.
2. **Celik, M.** & Zeytuncu, Y. E. (2017). Analysis on the Intersection of Pseudoconvex Domains, *Analysis and geometry in several complex variables*, 51–64, *Contemp. Math.*, 681, Amer. Math. Soc.
3. **Celik, M.** & Shaqlaih, A. (2017) Fostering Students' Preparation and Achievement in Upper Level Mathematics Courses, *International Journal for Mathematics Teaching and Learning*, Vol. 18.3, 383 – 397.
4. **Celik, M.** & Zeytuncu, Y. E. (2017). Hilbert-Schmidt Hankel operators with anti-holomorphic symbols on complete pseudoconvex Reinhardt domains. *Czechoslovak Math. J.* 67(142), no. 1, 207–217.
5. **Celik, M.** & Zeytuncu, Y. E. (2016). Obstructions for Compactness of Hankel Operators: Compactness Multipliers, *Illinois Journal of Mathematics*. 60, no. 2, 563–585.
6. **Celik, M.** & Zeytuncu, Y. E. (2016). Nilpotent Toeplitz Operators on Reinhardt Domains, *Rocky Mountain Journal of Mathematics*, Volume 46, Number 5, 1395-1404.
7. **Celik, M.** & Sahutoglu, S. (2014). Compactness of the  $\bar{\partial}$ -Neumann operator and commutators of the Bergman projection with continuous functions. *Journal of Mathematical Analysis and Applications*, 409 (1), 393–398.

8. **Celik, M.** & Zeytuncu, Y. E. (2013). Hilbert-Schmidt Hankel Operators with anti-holomorphic Symbols on Complex Ellipsoids. *Integral Equations and Operator Theory*, 76 (4), 589–599.
9. Shaqlaih, A. & **Celik, M.** (2013). Student's Preferences in Mathematics Lab. *American Journal of Educational Studies*, 6 (2), 17-35.
10. **Celik, M.** & Sahutoglu, S. (2012). On Compactness of the  $\bar{\partial}$ -Neumann Problem and Hankel Operators. *Proceedings of the American Mathematical Society*, 140 (1), 153–159.
11. **Celik, M.** & Straube, E. J. (2009). Observations Regarding Compactness in the  $\bar{\partial}$ -Neumann Problem. *Complex Variables and Elliptic Equations*, 54 (3-4), 173–186.
12. **Celik, M.** (2008) Contributions to the compactness theory of the  $\bar{\partial}$ -Neumann operator. *Thesis (Ph.D.)–Texas A&M University*. 79 pp. ISBN: 978-0549-72143-7, ProQuest LLC

<b>AWARDS AND NOTEABLES</b>
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- 2018 **Mehmet Celik** (PI) and **Padmapani Seneviratne** (Co-PI), *Experimenting with Mathematica and Magma*, **National Research Experience for Undergraduates Program** (NREUP), administered by Mathematical Association of America (MAA), funded by National Science Foundation (NSF, DMS-1652506). \$27,000
- 2016 Won \$5000 research stipend from **L3-Technologies, Greenville, TX**.
- 2012 *Liberal Arts and Sciences* **Faculty Teaching Award** University of North Texas at Dallas.

### **Presentations**

Celik, M. (2019). Obstructions for Compactness of Hankel Operators: Compactness Multipliers. *Analysis and Geometry in Several Complex Variables III (6–10 January 2019)*, Texas A&M University at Qatar, Doha, Qatar

Celik, M. (2018). Compactness of Hankel operators with symbols continuous on the closure of pseudoconvex domains *American Mathematical Society Special Session: Partial Differential Equations in Several Complex Variables*", University of Arkansas, Fayetteville, Arkansas.

Celik, M. (2017). Obstructions for Compactness of Hankel Operators: Compactness Multipliers. *American Mathematical Society Special Session: Several Complex Variables*, University of California, Riverside, California.

Celik, M. (2017). Jack of All Trades, *Math Club at Department of Mathematics*, Texas A&M University-Commerce, Commerce, Texas.

Celik, M. (2017). Complex Analysis and a Research Problem for students, *Math Department Colloquium*, Texas A&M University-Commerce, Commerce, Texas.

Celik, M. (2016). Cauchy-Riemann Equations. *Millican Colloquium at University of North Texas*, Denton, Texas.

Celik, M. (2016). Hilbert-Schmidt Hankel Operators with Anti-Holomorphic Symbols on Complete Pseudoconvex Reinhardt Domains. *Several Complex Variables Seminar, Department of Mathematics at Texas A&M University*, College Station, Texas.

Celik, M. (2016). A Formula Sheet in Math Exams: Issues and Remarks. *96th Annual Meeting of the Texas Section of the MAA, Stephen F. Austin State University, Nacogdoches, TX*.

Celik, M. (2016). Practical Issues in Fostering Teaching Excellence. *Learning Community organized by Center for Faculty Excellence and Innovation*, Texas A&M University-Commerce, Commerce, TX

Celik, M. (2015). Analysis on the intersection of pseudoconvex domains. *Workshop on 'Several Complex Variables and CR-Geometry' at International Erwin Schrodinger International Institute for Mathematical Physics*, Vienna, Austria.

Celik, M. (2015). Nilpotent Toeplitz Operators on Reinhardt Domains. *American Mathematical Society Special Session: Complex Analysis in Several Variables and its Applications*, Michigan State University, East Lansing, Michigan.

Celik, M. (2015). Inhomogeneous Cauchy-Riemann Equations in  $\mathbb{C}^1$  and in  $\mathbb{C}^2$ . *Complex Analysis Seminar*, University of Toledo, Ohio.

Celik, M. (with Shaqlaih, A.). (2015). Fostering Students' Preparation and Achievement in Upper Level Math Courses. *18th Annual Legacy of R. L. Moore – Inquiry-Based Learning Conference*, Austin, Texas.

Celik, M. (2015). Imaginary Numbers in Everyday Life. *Math Colloquium at University of Michigan-Dearborn*, Michigan.

Celik, M. (2015). From Biholomorphic Maps to the  $\bar{\partial}$ -Neumann Problem and related operators, *The Department of Mathematics*, Texas A&M University-Commerce, Commerce, Texas.

Celik, M. (2014). Using Math to Resolve a Game. *Student/Faculty Math Colloquium at University of North Texas at Dallas*, Texas.

Celik, M. (2014). *Hankel Operators with anti-holomorphic symbols on Complete Pseudoconvex Reinhardt Domains*. *The 30<sup>th</sup> Southeastern Analysis Meeting at Clemson University*, Clemson, South Carolina.

Celik, M. (2013). *Compactness of the  $\bar{\partial}$ -Neumann Operator and Commutator Operator on forms*. *Joint Mathematics Meetings AMS Special Session on Several Complex Variables Techniques in Operator Theory*, San Diego, California.

Celik, M. (2012). *Compactness of the  $\bar{\partial}$ -Neumann operator and of commutators of the Bergman projection with continuous functions*. 'Complex Analysis Seminar', *Department of Mathematics and Statistics*, University of Toledo, Toledo, Ohio.

Celik, M. (2012). *Compactness of the  $\bar{\partial}$ -Neumann Operator and Commutator Operator on forms*. *AMS Special Session: Interplay between Geometry and PDEs in Several Complex Variables*, Lawrence, Kansas.

Celik, M. (2011). *Compactness of the  $\bar{\partial}$ -Neumann problem and Hankel Operators*. 'Complex Analysis Seminar', Department of Mathematics and Statistics, University of Toledo, Toledo, Ohio.

Celik, M. (2010). *On compactness of the  $\bar{\partial}$ -Neumann problem and Hankel operators*. Tenth Prairie Analysis Seminar at University of Kansas, Lawrence, Kansas.

Celik, M. (2010). *Compactness of the  $\bar{\partial}$ -Neumann Problem and Hankel Operators*. Program on Spectrum of the  $\bar{\partial}$ -Neumann Operator and Hankel Operators at CIRM - Centre Internationale de Rencontres Mathematiques, Luminy, Marseille, France.

Celik, M. (2009). *Independence of Sub-elliptic Estimates of the  $\bar{\partial}$ -Neumann Operator from a Metric*. Workshop on  $\bar{\partial}$ -Neumann Problem at International Erwin Schrodinger Institute for Mathematical Physics, Vienna, Austria.

Celik, M. (2009). *Observations on some properties of the  $\bar{\partial}$ -Neumann Operator*. Research seminars in Analysis, Department of Mathematical Sciences, University of Arkansas, Fayetteville, Arkansas.

Celik, M. (2009). *Complex Analysis Beyond One Dimension*. Guest speaker at the Mathematics Colloquia, Department of Mathematical Sciences, University of Arkansas, Fayetteville, Arkansas.

Celik, M. (2008). *Inequalities in Analysis*. Student/Faculty Colloquium Series in the Department of Mathematics, UA - Fort Smith, Fort Smith, Arkansas.

Celik, M. (2007). *Ideal of Compactness Multipliers*. 2007 Spring AMS Central Section Meeting No.1025, Oxford, Ohio.

Celik, M. (2007). *Solving the CR equations through the  $\bar{\partial}$ -Neumann Problem*. Math Colloquia - Texas A&M University-Commerce, Commerce, Texas.

Celik, M. (2006). *Ideal of Compactness Multipliers*. SCV Seminar, Department of Mathematics at Texas A&M University, College Station, Texas.

Celik, M. (2006). *Invariance of compactness and sub-elliptic estimates for smooth metrics*. SCV Seminar, Department of Mathematics at Texas A&M University, College Station, Texas.

Celik, M. (2006). *The Hopf Lemma*. SCV Seminar, Department of Mathematics at Texas A&M University, College Station, Texas.