

# Curriculum Vitae

## 1. Communication details

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## 2. Personal Details

Name: Erdem Baytuñ

Birth date: 1994

Birth Place: Lefkoşa - TRNC

Nationality: Cypriot

Marital Status: Bachelor

## 3. Education details

Ph.D. in Mathematics (3.73/ 4.00), July 2024, Eastern Mediterranean University (EMU), TRNC

Title of PhD Thesis: “Blending type Bernstein and  $\psi$ -Bernstein-Kantorovich Operators”

(Supervisor: Prof. Dr. Hüseyin Aktuğlu)

M.S. in Mathematics (3.35/ 4.00), 2018, Eastern Mediterranean University (EMU), TRNC

Title of Master Thesis: “Convergent Sequences and Statistical Limit Points”

(Supervisor: Prof. Dr. Hüseyin Aktuğlu)

B.S. in Mathematics (3.06/ 4.00), 2016, Ankara University (AU), Ankara-Türkiye

## 4. Languages

Turkish: Native

English: Fluent

## 5. Experiences

➤ Eastern Mediterranean University (EMU)- Departments of Mathematics - Research and Teaching Assistant (2017- 2024 )

➤ Eastern Mediterranean University (EMU)- Departments of Mathematics – Part Time Lecturer (2024- )

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➤ List of courses assisted:

Course Code	Course Name
Mate105	Analiz 1
Mate106	Analiz 2
Mate107	Matematik
Mate109	Temel Matematik

<b>Mate117</b>	<b>Elektrik Teknisyenleri için Matematik</b>
<b>Mate151</b>	<b>Calculus 1</b>
<b>Mate152</b>	<b>Calculus 2</b>
<b>Mate153</b>	<b>İşletme ve Ekonomi için Matematik 1</b>
<b>Mate154</b>	<b>İşletme ve Ekonomi için Matematik 2</b>
<b>Mate213</b>	<b>Analitik Geometri</b>
<b>Mate241</b>	<b>Lineer Cebir ve Adi Diferansiyel Denklemler</b>
<b>Mate332</b>	<b>Olasılık ve İstatistiksel Metodlar</b>
<b>Math103</b>	<b>Mathematics for Business and Economics 1</b>
<b>Math104</b>	<b>Mathematics for Business and Economics 2</b>
<b>Math106</b>	<b>Linear Algebra</b>
<b>Math124</b>	<b>Geometry</b>
<b>Math135</b>	<b>Basic Mathematics for Health Sciences</b>
<b>Math151</b>	<b>Calculus 1</b>
<b>Math152</b>	<b>Calculus 2</b>
<b>Math206</b>	<b>Linear Algebra 2</b>
<b>Math207</b>	<b>Differential Equations</b>
<b>Math241</b>	<b>Linear Algebra and Ordinary Differential Equations</b>
<b>Math322</b>	<b>Probability and Statistical Methods</b>

➤ List of courses taught:

<b>Mate215</b>	<b>Analiz 3</b>
<b>Mate311</b>	<b>İstatistik</b>
<b>Mate332</b>	<b>Olasılık ve İstatistiksel Metodlar</b>
<b>Math167</b>	<b>Mathematics for Arts and Social Sciences</b>
<b>Math241</b>	<b>Linear Algebra and Ordinary Differential Equations</b>
<b>Math322</b>	<b>Probability and Statistical Methods</b>
<b>Math111</b>	<b>Basic Mathematics</b>
<b>Mate135</b>	<b>Sağlık Bilimleri İçin Temel Matematik</b>
<b>Mate402</b>	<b>Matematik Felsefesi</b>
<b>Mate126</b>	<b>Soyut Matematik</b>
<b>Mate130</b>	<b>Matematiğin Temelleri 2</b>

- List of courses taught (Spring 2024/2025):

<b>Mate402</b>	<b>Matematik felsefesi</b>
<b>Mate130</b>	<b>Matematğin Temelleri 2</b>
<b>Mate126</b>	<b>Soyut Matematik</b>
<b>Math241</b>	<b>Linear Algebra and Ordinary Differential Equations</b>

- List of courses taught (Fall 2025/2026):

<b>Math151</b>	<b>Calculus 1</b>
<b>Math241</b>	<b>Linear Algebra and Ordinary Differential Equations</b>
<b>Math167</b>	<b>Mathematics for Arts and Social Sciences</b>
<b>Math111</b>	<b>Basic Mathematics</b>
<b>Mate215</b>	<b>Analiz 3</b>

## 7. Articles in Refereed Journals

### SCI/SCIE-Indexed Articles

- 1) Aktuđlu, H., Gezer, H., Baytunc, E., & Atamert, M. S. (2022). Approximation Properties of generalized blending type Lototsky-Bernstein Operators. *Journal of Mathematical Inequalities*, 16(2).
- 2) Gezer, H., Aktuđlu, H., Baytunc, E., & Atamert, M. S. (2022). Generalized blending type Bernstein operators based on the shape parameter  $\lambda$ . *Journal of Inequalities and Applications*, 2022(1), 96.
- 3) Aydin, M., Mahmudov, N. I., Aktuglu, H., Baytunc, E., & Atamert, M. S. (2022). On a study of the representation of solutions of a  $\Psi$ -Caputo fractional differential equations with a single delay. *Electronic Research Archive*, 30(3), 1016-1034.
- 4) Aktuđlu, H., Kara, M., & Baytunc, E.(2024)  $\psi$ -Bernstein–Kantorovich operators. *Mathematical Methods in the Applied Sciences*.
- 5) Baytunc, E., Gezer, H., & Aktuđlu, H. (2024). Kantorovich variant of the blending type Bernstein operators. *Bulletin of the Iranian Mathematical Society*.

- 6) Aktuğlu, H., Kara, M., & Baytunç, E. (2025). Approximation by  $\psi$ -Baskakov-Kantorovich Operators. *Mathematical Methods in the Applied Sciences*.
- 7) Aktuğlu, H., Kara, M., & Baytunç, E. (2025). Modified Szász-Kantorovich operators with better approximation. *Filomat*, 39(11), 3833-3850.
- 8) Aktuğlu, H., Kara, M., Baytunç, E., & Fidan, S. (2025).  $(\lambda, \psi)$ -Bernstein-Kantorovich operators. *Demonstratio Mathematica*, 58(1), 20250126.

## 8. Articles in Refereed Journals

### ESCI-Indexed Articles

- 1) Baytunç, E., Aktuğlu, H., & Mahmudov, N. I. (2024). Approximation properties of Riemann-Liouville type fractional Bernstein-Kantorovich operators of order  $\alpha$ . *Mathematical Foundations of Computing*, 7(4), 544-567.

## 9. Articles in Refereed Journals

### ULAKBIM-Indexed Articles

- 1) Baytunç, E., Aktuğlu, H., & Mahmudov, N. A New Generalization of Szász-Mirakjan Kantorovich Operators for Better Error Estimation. *Fundamental Journal of Mathematics and Applications*, 6(4), 194-210.

## 10. International Conferences

- 1) Generalized  $\alpha$ -Lototsky matrices with Generalized  $\alpha$ -Bernstein operators, International Conference on Recent Advances in Pure and Applied Mathematics Icrapam 2019.
- 2) New Generalization of Baskakov-Kantorovich Operators for Better Error Estimation, Approximation Theory and Special Functions 2024.