

ÇAĞRI MERT BAKIRCI

Evolutionary Engineering & Robotics

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EXPERIENCE

Founder, Editor-In-Chief

Evrım Ağacı

📅 2010 - Present 📍 Lubbock, TX & Ankara, Turkey

- Created thousands of popular science content (posts and videos)
- Organized events related to science education and science popularization
- Published two popular science books and one board game

PhD in Mechanical Engineering

Texas Tech University

📅 September 2013 - May 2018 📍 Lubbock, TX

- Worked on a unified Theory of Algorithmic Evolution
- Studied the effects of fitness functions and *a priori* knowledge injection on algorithm performance
- Built a novel test setup to explore the Reality Gap

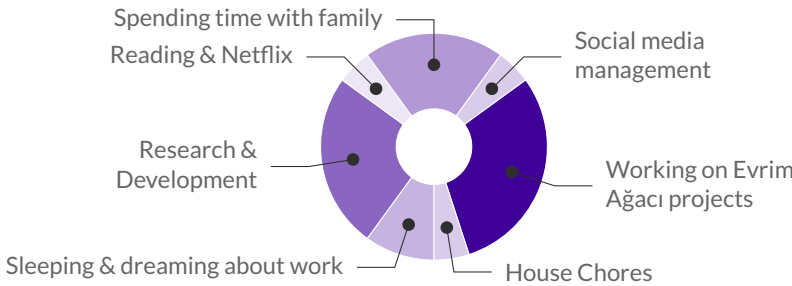
Lab Researcher

Mechanical Engineering & Biology

📅 2009 - 2018 📍 Ankara & Lubbock

- *Texas Tech University*: Worked on evolutionary engineering.
- *Carnegie Mellon University*: Worked on a water strider robot inspired by Gerridae family
- *Denmark Technical University*: Worked on self-healing and self-organization properties of starling flocks and mussels
- *Middle East Technical University*: Worked on fluctuating asymmetry in *Apis mellifera* (bee) wings
- *Middle East Technical University*: Worked on the impact of prenatal alcohol consumption on infant mouse visual acuity

A DAY OF MY LIFE



LIFE PHILOSOPHY

“Conquer Darkness with Science!”

MOST PROUD OF

📌 **Combining Engineering & Biology**
Even if I studied engineering, I combined it with my passion, evolutionary biology.

💡 **TEDx Talks**
Gave two TEDx Talks about my work: One in METU, Ankara and one in Lubbock, Texas.

📈 **Evrım Ağacı’s Growth**
I built the largest popular science organization in Turkey.

💡 **Scientific Enlightenment in Turkey**
Founded and have been leading one of the most successful science organizations in history of Turkey.

STRENGTHS

Hard-working Empathetic
Persuasive Motivator & Leader

Bio-Inspired Design
Evolutionary Optimization
Problem Solving

LANGUAGES

Turkish ●●●●●
English ●●●●●

EDUCATION

PhD in Mechanical Engineering & Minor in Biology

Texas Tech University

📅 Sept 2013 - May 2018

B.S. in Mechanical Engineering

Middle East Technical University

📅 Sept 2007 - May 2013

PUBLICATIONS

Books

- Bakirci, C.M. (ed.) (2017). *The Light of Evolution in the Darkness of the Universe: An Interdisciplinary Look at the Mortar of All Modern Sciences*. Istanbul, Turkey: Kor Kitap (2 Editions).
- Bakirci, C.M. (2014). *The Theory and Mechanisms of Evolution: On the Foundations of Evolution and How It Works*. Istanbul, Turkey: Kor Kitap (5 Editions).

Journal Articles

- (Submitted), C.M. Bakirci, S. Watkins, and B. Aksak (2018). "Fitness Shaping to Limit Fitness Function Complexity and Designer Bias: A Case Study with a Line Following Robot". In: *MIT Evolutionary Computation TBD* (TBD), TBD.
- (Ongoing), C.M. Bakirci and B. Aksak (2017). "Parameter Sweeps on mu-lambda Selection Scheme for Parameter Selection in Evolutionary Algorithms: A Case Study". In: *IEEE Transactions on Evolutionary Computation TBD* (TBD), pp. 251–263.

Contributions

- Bakirci, C.M. (2018). "ANGYRA: A Future Utopia". In: *Museum of Earth: Sci-Fi Club*, pp. 81–104.
- Chapman, S.J. (2017). "MATLAB Programming with Applications for Engineers". In: *CL-Engineering*, (Reviewed).
- Bakirci, C. M. (2015). "On the Evolution of Love: How and Why Do We Fall in Love?" In: *Ideas on Love*, pp. 32–46.
- Lenau, T. and T. Hesselberg (2013). "Chapter 13: Biomimetic Self-Organization and Self-Healing". In: *Engineered Biomimicry*, Elsevier, 2013. FL, USA: Elsevier, 337–362 (Acknowledgement).

REFERENCES

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