

Cem Sayar

Florida International University,
Dept. of Mathematics and Statistics,
Miami, Florida, US
(Visiting Assistant Professor)

csayer@fiu.edu

Istanbul Technical University,
Dept. of Mathematics Engineer,
Istanbul, Turkey
(Academic Dr.)

EDUCATION:

- **Ph.D., Department of Mathematics,
Istanbul Technical University, September 2019**

✓ *Generic Submersions*

Advisor: Prof. Fatma ÖZDEMİR

Co-Advisor: Prof. Hakan Mete TAŞTAN

- **Pedagogical Formation, Istanbul University, Istanbul, Turkey, 2014**

- **MSc. , Department of Mathematics,
Istanbul University, Turkey, June 2013**

✓ *Some Criteria for Constancy in Almost Hermitian Manifolds*

Advisor: Prof. Hakan Mete TAŞTAN

- **BSc. , Department of Mathematics,
Istanbul University, Turkey, June 2009**

PROFESSIONAL EXPERIENCE:

- August 2023 – Present, **Visiting Assistant Professor**, Florida International University, Miami, US
- February 2019 – Present, **Academic Dr.**, Istanbul Technical University, Istanbul, Turkey

- October 2021 – August 2023, **Adjunct Professor – Postdoctoral Associate**, Florida International University, Miami, US (Prof. Edgar FULLER, Prof. Tedi Draghici)
- September 2019 – November 2019, **Visiting Scholar**, Ioan Cuza University, Iasi, Romania (Prof. Cornelia Livia BEJAN)
- 2013 – 2019, **Teaching and Research Assistant**, Istanbul Technical University, Istanbul, Turkey

TEACHING EXPERIENCE:

- **2023 - Present, Visiting Assistant Professor, Department of Mathematics and Statistics, Florida International University**
 - ✓ Mentor for Undergraduate Students on Differential Geometry
 - ✓ 2023-2024 Fall Term,
 - Calculus I (in-person); Exam Preparation Committee Member*
 - Calculus II (in-person)(2 sections)*
 - College Algebra (hybrid)*
 - Calculus for Business (hybrid); Exam Preparation Committee Member*
- **2021 - 2023, Adjunct Professor - Visiting Scholar, Department of Mathematics and Statistics, Florida International University**
 - ✓ Mentor for a Differential Geometry project
REU Summer Programme, June 5th – July 28th, 2023
 - ✓ 2022-2023, Summer Term
Calculus I, (Online)
 - ✓ 2022-2023, Summer Term
Calculus I, (In Person)
 - ✓ 2022-2023, Spring Term
Calculus II for Engineers, (In person)
 - ✓ 2022-2023, Spring Term, (In person)
Calculus for Business (3 sections)
 - ✓ 2022-2023, Fall Term, (In person)

Calculus I (2 sections)

- ✓ 2021 – 2022, Summer Term, (In-person)

Calculus II for Engineers

- ✓ 2021 – 2022, Spring Term,

Differential Geometry, Support to the students unofficially

➤ **2019-2021, Academic Dr.,
Department of Mathematics,
Istanbul Technical University**

- ✓ 2019 - 2020 Summer Term,

Mathematics I (2 classes, English), Theory + Recitation Sessions (140 hours - Online)

<https://www.mathavuz.itu.edu.tr/mat/catalog.php?code=MAT103>

- ✓ 2020 – 2021 Fall Term,

Mathematics I (3 classes, English), Theory + Recitation Sessions (210 hours - Online)

- ✓ 2020-2021 Spring Term,

Mathematics II (3 classes, English), Theory + Recitation Sessions (210 hours – Online)

<https://www.mathavuz.itu.edu.tr/mat/catalog.php?code=MAT104>

- ✓ 2020-2021 Summer Term,

Mathematics I (1 class, English), Theory + Recitation Sessions (70 hours - Online)

- ✓ Mathematics II (1 class, English), Theory + Recitation Sessions (70 hours - Online)

➤ **2013-2019, Teaching and Research Assistant,
Department of Mathematics,
Istanbul Technical University**

- ✓ Mathematics I (English), Recitation Sessions, (336 hours – In-person)

<https://www.mathavuz.itu.edu.tr/mat/catalog.php?code=MAT103>

- ✓ Mathematics II (English), Recitation Sessions, (336 hours – In-person)

<https://www.mathavuz.itu.edu.tr/mat/catalog.php?code=MAT104>

- 2005 – Present Tutoring & grading various undergraduate and graduate courses

Experienced Supportive Websites and Computer Programs

Websites:

- Canvas (by FIU)
- Ninova (ITU copyright)
- Pearson My Lab
- Wolfram Alpha

Programs:

- Latex
- Beamer
- Microsoft Office
- Python

RESEARCH:

Publication:

Scholar Account:

<https://scholar.google.com/citations?user=x7N-518AAAAJ&hl=en&oi=ao>

- ✓ Falcitelli, Maria; **Sayar, Cem**; *A Wide Class of Contact-Complex Riemannian Submersions*, (to appear, 2023).
- ✓ **Sayar, Cem**; *Generic Submersions in Contact Geometry*, (to appear, 2023).
- ✓ **Sayar, Cem**; Akyol, Mehmet Akif; *Pointwise Hemi Slant Submersion*, Ukrainian Mathematical Journal (to appear, 2023).
- ✓ Bejan, Cornelia Livia; **Sayar, Cem**; *Generic Submanifolds of Almost Contact Metric Manifolds*. Bulletin of the Malaysian Mathematical Sciences Society, 45, (2022), 2571-2595.
- ✓ **Sayar, Cem**
Generalized skew semi-invariant submersions.
Mediterr. J. Math. 17 (2020), no. 3, Paper No. 81, 21 pp.
- ✓ **Sayar, Cem**; Akyol, Mehmet Akif; Prasad, Rajendra
Bi-slant submersions in complex geometry.
Int. J. Geom. Methods Mod. Phys. 17 (2020), no. 4, 2050055, 17 pp.
- ✓ **Sayar, Cem**; Taştan, Hakan Mete; Özdemir, Fatma; Tripathi, Mukut Mani
Generic submersions from Kaehler manifolds.
Bull. Malays. Math. Sci. Soc. 43 (2020), no. 1, 809–831.
- ✓ Bejan, Cornelia Livia; **Sayar, Cem**
Generalized skew-semi invariant submanifolds of almost para contact manifolds.

- Mem. Sect. Ştiinţ. Acad. Română Ser. IV* 42 (2019), 73–79.
- ✓ **Sayar, Cem**; Özdemir, Fatma; Taştan, Hakan Mete
Pointwise semi-slant submersions whose total manifolds are locally product Riemannian manifolds.
Int. J. Maps Math. 1 (2018), no. 1, 91–115.
 - ✓ Özdemir, Fatma; **Sayar, Cem**; Taştan, Hakan Mete
Semi-invariant submersions whose total manifolds are locally product Riemannian.
Quaest. Math. 40 (2017), no. 7, 909–926.
 - ✓ Taştan, Hakan Mete; Özdemir, Fatma; **Sayar, Cem**
On anti-invariant Riemannian submersions whose total manifolds are locally product Riemannian.
J. Geom. 108 (2017), no. 2, 411–422.

Presentation:

- ✓ Sayar C., 2023, **Generic submanifolds**, Texas Tech University department talk
- ✓ Sayar C., 2022, **Generic submersions**, FIU department talk.
- ✓ Bejan C.L., Sayar C., 2021. **Generic Submanifolds of Almost Contact Metric Manifolds**. 18th International Geometry Symposium, 2021, Malatya, Turkey, (Online).
- ✓ Sayar C., Akyol M. A., Prasad R., 2019. **On bi-slant submersions**. The International Conference "Differential Geometry and Dynamical Systems - 2019" (DGDS-2019), October 10-12, Bucharest, Romania.
- ✓ Sayar C., Akyol M. A., Prasad R., 2019. **Bi-slant submersions from Kaehler manifolds**. 17th International Geometry Symposium, June 19-22, 2019, Erzincan, Turkey.
- ✓ Sayar C., 2019. **Generalized skew semi-invariant submersions**. International Symposium of Differential Models in Geometry, Computer Science and Hydrotechnics (DiMoGeCH), May 22-25, Iasi, Romania.
- ✓ Sayar C., Özdemir F., Taştan H. M., 2018. **Generic submersions from Kaehler manifolds II**. 16th International Geometry Symposium, July 4-7, Manisa, Turkey.
- ✓ Sayar C., Özdemir F., Taştan H. M., 2018. **Generic submersions from Kaehler manifolds I**. 16th International Geometry Symposium, July 4-7, Manisa, Turkey.
- ✓ Sayar C., Özdemir F., Taştan H. M., 2016. **The Geometry of Anti-invariant Submersions From Locally Product Riemannian Manifolds**. International Workshop On Theory of Submanifolds, June 2-4, Istanbul, Turkey.
- ✓ Sayar C., Özdemir F., Taştan H. M., 2016. **Semi-slant submersions from locally product Riemannian manifolds**. 14th Geometry Symposium, May 25-28, Denizli, Turkey.

- ✓ Sayar C., Özdemir F., Taştan H. M., 2015. ***Semi-invariant submersion from locally product Riemannian manifolds***. 13th Geometry Symposium, July 27-30, Istanbul, Turkey.
- ✓ Sayar C., Özdemir F., Taştan H. M., 2014. ***On hemi-slant submanifolds in locally product Riemannian manifolds***. International Workshop on Finite Type Submanifolds, September 3-5, Istanbul, Turkey.
- ✓ Sayar C., Taştan H. M., 2013. ***Takribi Hermitiyen manifoldlarda sabitlik için kriterler***. 26. Ulusal Matematik Sempozyumu, September 4-7, Diyarbakır, Turkey.

Grants/Support:

- Adjunct Professor, Teaching Excellence Nomination, FIU
- ITU Fast-Scholar, 2022, (\$5000)
- International Research Project Scholarship, Scientific and Technological Research Council of Turkey, 10/17/2021 – 10/17/2022, (\$30,000)

Project Title: On 4-dimensional Riemann Einstein-Maxwell Metrics
Prof. Tedi DRAGHICI, Florida International University

- Postdoc, Ioan Cuza University, Iasi, Romania, (\$9,000)
- Ph.D. Success Scholarship, Scientific and Technological Research Council of Turkey, 2013 – 2019, (\$35,000)

Referee Roles for Some Journals:

- ✓ Communications in Advanced Mathematical Sciences
<https://dergipark.org.tr/en/pub/cams>
- ✓ MATHSCINET
<https://mathscinet.ams.org/mathscinet/index.html>
- ✓ Journal of Mathematics
<https://www.hindawi.com/journals/jmath/>
- ✓ Turkish Journal of Mathematics
<https://journals.tubitak.gov.tr/math/index.htm>
- ✓ Hacettepe Journal of Mathematics and Statistics
<https://dergipark.org.tr/en/pub/hujms>
- ✓ Hagia Sophia Journal of Geometry
<https://dergipark.org.tr/en/pub/hsjg>
- ✓ Fundamentals Contemporary Mathematical Sciences
<https://dergipark.org.tr/en/pub/fcmathsci>

Research Interest:

- ✓ Complex Geometry
- ✓ Symplectic Geometry
- ✓ Riemannian Geometry
- ✓ Contact Geometry
- ✓ The theory of submersions
- ✓ The theory of submanifolds
- ✓ Einstein-Maxwell theory
- ✓ Machine Learning

SERVICE:

- 2017 – 2018, Fall Term, **Mathematics Common Courses Co-Coordinator**, Istanbul Technical University, (www.mathavuz.edu.tr)
- 2017 – 2018, Spring Term, **Mathematics Common Courses Co-Coordinator**, Istanbul Technical University, (www.mathavuz.edu.tr)
- 2018 – 2019, Fall Term, **Mathematics Common Courses Co-Coordinator**, Istanbul Technical University, (www.mathavuz.edu.tr)
- 2018 – 2019, Spring Term, **Mathematics Common Courses Co-Coordinator**, Istanbul Technical University, (www.mathavuz.edu.tr)
- 2019 – 2020, Summer Term, **Mathematics Common Courses Coordinator**, Istanbul Technical University, (www.mathavuz.edu.tr)
- 2020 – 2021, Spring Term, **Mathematics Common Courses Coordinator**, Istanbul Technical University, (www.mathavuz.edu.tr)
- 2020 – 2021, Summer Term, **Mathematics Common Courses Coordinator**, Istanbul Technical University, (www.mathavuz.edu.tr)
- 2013 – 2020, Faculty of Science and Letters Student Soccer Team Responsibility, Istanbul Technical University, Istanbul, Turkey
- 2013 – 2020, Faculty of Science and Letters Student Basketball Team Responsibility, Istanbul Technical University, Istanbul, Turkey
- 2020 – 2021, Faculty of Science and Letters Staff Football Team Responsibility, Istanbul Technical University, Istanbul, Turkey

REFERENCE:

- Prof. Umut ÇAĞLAR, Florida International University, Miami, US
✉: ucaglar@fiu.edu
☎: +1-305-348-4336
- Prof. Bayram ŞAHİN, Ege University, İzmir, Turkey

✉: bayram.sahin@ege.edu.tr

☎: +905303243032

- Prof. Tedi DRAGHICI, Florida International University, Miami, US
✉: draghici@fiu.edu
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- Prof. Maria FALCITELLI, Bari University, Bari, Italy
✉: maria.falcitelli@uniba.edu
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- Prof. Cornelia Livia BEJAN, Ioan Cuza University, Iasi, Romania
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- Prof. Fatma ÖZDEMİR, Istanbul Technical University, Istanbul, Turkey
✉: fozdemir@itu.edu.tr
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- Prof. Caner KOCA, Department of Mathematics, New York College of Technology (CUNY), New York, US
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