

Curriculum Vitae

Ahmed Ali Hamed Al-Kasbi, Ph.D.



PERSONAL DATA

Address for Correspondence: Jalan Bani Bu Ali
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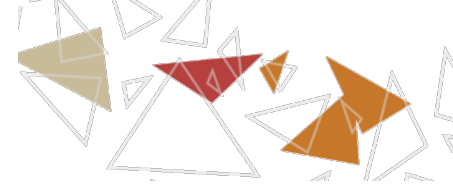
Nationality: Omani
Date of Birth: 17th November 1980
Place of Birth: Jalan Bani Bu Ali
Marital Status: Married

JOB OBJECTIVES:

- Serving in any academic organization.
- Applying my knowledge and experience in the mathematical modelling and fluid Dynamics fields.
- Teaching mathematics courses in both Arabic and English.
- Conducting mathematical modelling research.
- Supervising undergraduate and postgraduate students.

RESEARCH INTERESTS

- Mathematical and numerical modelling.
- Applied mathematics.
- Numerical optimization.
- Fluid mechanics.
- Water quality.
- Contaminant transport.

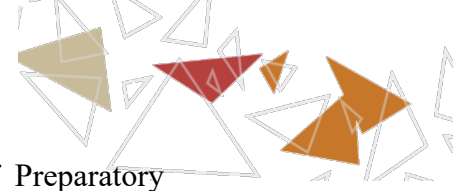


QUALIFICATIONS

- 2022 **Ph.D. In Mathematics**, Department of Mathematics, College of Science, Sultan Qaboos University, Muscat, Oman.
Thesis title: A Developed Analytical Model for Dispersion of Effluent Discharges Under Tidal Oscillations.
- 2016 **M.Sc. In Applied Mathematics**, Department of Mathematics and Statistics, College of Science, Sultan Qaboos University, Muscat, Oman, GPA: (3.41)
Thesis title: Model Simulation of Desalination Brine Discharge in Shallow Coastal Waters.
- 2002 **B.A (Mathematics Major)**, College of Education, Ministry of Higher Education, Sur, Oman, GPA: (3.22)
- 1998 **General Secondary Certificate**, Sultan Qaboos School, Jalan Bani Bu Ali, Oman (Grade: 92%)

CAREER SUMMARY

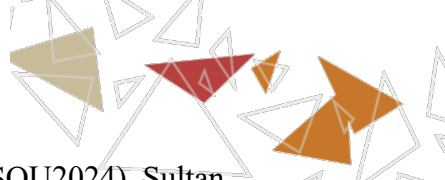
- Sep. 16, 2024– Now Assistant professor, Basic and Applied Sciences Department, College of Applied and Health Sciences, A'Sharqiyah University, Ibra, Sultanate of Oman
- Feb. 4, 2024 – June 6, 2024 Assistant professor (Part-Time), College of Applied and Health Sciences, A'Sharqiyah University, Ibra, Sultanate of Oman.
- Sep. 18, 2022 – Jan. 20, 2024 Mathematics Senior Lecturer, Department of Information Technology, University of Technology and Applied Sciences- Ibra, Ibra, Sultanate of Oman.
- Sep. 16, 2023 – Jan. 18, 2024 Assistant professor (Part-Time), College of Applied and Health Sciences, A'Sharqiyah University, Ibra, Sultanate of Oman.
- Feb. 5, 2023 – Jun. 4, 2022 Supervisor of Practicum (Part-Time), College of Arts and Humanities, A'Sharqiyah University, Ibra, Sultanate of Oman
- Mar. 6, 2022 – May 26, 2022 Supervisor of Practicum (Part-Time), College of Arts and Humanities, A'Sharqiyah University, Ibra, Sultanate of Oman
- Sep. 13, 2020 – Jan. 7, 2021 Mathematics Instructor (Part-Time), Center of Preparatory Studies, Sultan Qaboos University, Muscat, Sultanate of Oman
- Sep. 8, 2019 – Jan. 2, 2020 Mathematics Instructor (Part-Time), Center of Preparatory Studies, Sultan Qaboos University, Muscat, Sultanate of Oman



- Sep. 9, 2018 – Mathematics Instructor (Part-Time), Center of Preparatory
Jan. 3, 2019 Studies, Sultan Qaboos University, Muscat, Sultanate of Oman
- Jun. 24, 2018 – Mathematics Instructor (Part-Time), Center of Preparatory
Aug. 16, 2018 Studies, Sultan Qaboos University, Muscat, Sultanate of Oman
- 2008 – 2022 Mathematics Supervisor, Supervision Department, Directorate
General of Education, A'Sharqiyah South, Ministry of
Education, Sultanate of Oman
- 2002 – 2008 Mathematics Teacher in Omani government schools in
A'Shaqiyah South.

PARTICIPATIONS

- International Conference on Numerical Analysis and Optimization (NAOIII 2014), Sultan Qaboos University, Muscat, Sultanate of Oman, January 6-9, 2014.
- First International Water Conference 2016 "Water Recourses in Arid Areas: The Way Forward" Water Research Center, Sultan Qaboos University, Muscat, Sultanate of Oman, March 13-16, 2016.
- International Conference on Operation Research and its Applications (2018), Sultan Qaboos University, Muscat, Sultanate of Oman, April 6-9, 2020.
- Third Cambridge-Sultan Qaboos Universities Symposium (CAMSQU2019) on Mathematical Modelling, Sultan Qaboos University, Muscat, Sultanate of Oman, April 9-11, 2019.
- Fifth International Conference on Numerical Analysis and Optimization (NAOV2020), Sultan Qaboos University, Muscat, Sultanate of Oman, January 6-9, 2020.
- Second International Conference on Water Resources in Arid Areas (WRAA2020), Water Research Center, Sultan Qaboos University, Muscat, Sultanate of Oman, November 9-11, 2020.
- Internal Training Program for Practicum students, College of Arts and Humanities, A'Sharqiyah University, Ibra, Sultanate of Oman, February 6-17, 2022.
- International Workshop on Mathematical Modelling and Numerical Optimization (2022), Oman Mathematics Committee, Muscat, Sultanate of Oman, May 12, 2022.
- Mathematical Modelling Symposium (2023), Military Technological College, Muscat, Sultanate of Oman, Feb. 5, 2023.
- Vienna Water Conferences (2023), 40th IAHR World Congress, Vienna, Austria, 21-25 Aug. 2023.
- International Conference on Computing and Data Analysis (ICCCA'23), University of Technology and Applied Sciences (UTAS)-Ibri, Sultanate of Oman, December 10-12, 2023.

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- International Conference: Recent Trends in Mathematics (ICM-SQU2024), Sultan Qaboos University, Muscat, Sultanate of Oman, March 4-6, 2024.

TEACHING (COURSES TAUGHT):

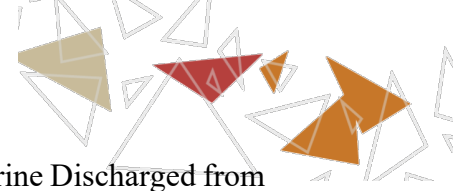
- Discrete Mathematics (MATH140).
- Principles of Mathematics (MATH211).
- Probability Theory I (MATH132).
- Calculus I (MATH1202), (MATH101).
- Engineering Mathematics (MATH3120).
- Set Theory (MATH302E).
- Statistics Principles for Business (STAT105A)
- Pre-calculus (FPMT0108).
- Mathematics for Economics (FPMT0107).
- Mathematics for Humanities (FPMT0106).
- Pure Mathematics (FPMP0003).
- Basic Mathematics (FPMB0001).

PROFESSIONAL AFFILIATIONS

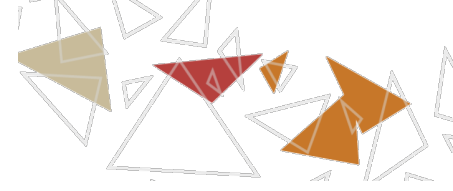
- A member of PhD supervising committee, Sultan Qaboos University, Proposal title: Advection-Diffusion in Oscillating Flow on a Slope (2024-2027).
- A member in International Association Hydro-Environment Engineering and Research (Membership number 91470).
- A member of the organizing committee of the Third Cambridge-Sultan Qaboos Universities Symposium (CAMSQU2019).
- A member of the organizing committee of the 5th International Conference on Numerical Analysis and Optimization (NAOV-2020).
- A member in Oman Mathematics Committee Workshop 2022.
- A member in committee of Adopting the Advanced Mathematics Series for grades 11 and 12, Ministry of Education, Sultanate of Oman, 2022.
- A member in Internal Curriculum Review Committee, University of Technology and Applied Sciences-Ibra.

PUBLICATIONS/ CONFERENCE PROCEEDINGS/ CONTRIBUTED PAPERS

1. Al-Kasbi, A., Al-Mashrafi, K. & Purnama, A. (2016). Model Simulations of Desalination Brine Discharge in Shallow Coastal Waters (conference proceeding), 1st International Water Conference on Water Resources in Arid Areas, Water Research Center, Sultan Qaboos University, Muscat, Sultanate of Oman, March 13-16, 2016.



2. Al-Kasbi, A. & Purnama, A. (2019). Studying the Behavior of Brine Discharged from Desalination Plants Influenced by Spring-Neap Tides (conference proceeding), 3rd Cambridge-Sultan Qaboos Universities Symposium (CAMSQU2019), Muscat, Sultanate of Oman.
3. Al Kasbi, A. (2016). Model Simulation of Desalination Brine Discharge in Shallow Coastal Waters. MSc thesis, Sultan Qaboos University, Muscat, Sultanate of Oman.
4. Al Kasbi, A. (2020). Spreading of Brine Effluents into Spring-Neap Tidal currents: Modelling and Optimum conditions, 5th International Conference on Numerical Analysis and Optimization (NAOV2020) (conference proceeding), Sultan Qaboos University, Muscat, Sultanate of Oman, January 6-9, 2020.
5. Al Kasbi, A. (2020). The Effect of Spring-Neap Tidal currents on Spreading of Discharged Contaminants from Two Desalination Plants (conference proceeding), 2nd International Water Conference on Water Resources in Arid Areas (WRAA2020), Sultan Qaboos University, Muscat, Sultanate of Oman, November 9-11, 2020.
6. Al Kasbi, A. & Purnama, A. (2021). Behaviour of Effluent Discharged into Shallow Coastal Waters under the Influence of Spring-Neap Tidal Currents, Environmental Fluid Mechanics.
7. Al Kasbi, A. (2022). A Developed Analytical Model for Dispersion of Effluent Discharges Under Tidal Oscillations. PhD thesis, Sultan Qaboos University, Muscat, Sultanate of Oman.
8. Purnama, A. & Al Kasbi, A. (2023) On Dispersion of Effluent Discharges into Tidally Coastal Waters, 13th International Conference on Science, Computing, Chemistry & Management (ICSCCM 2023), Topkapi University Istanbul, Turkey, 13-14 July 2023.
9. Purnama, A. & Al Kasbi, A. (2023) Modeling the Dispersion of Effluents Discharged into Tidally Coastal Waters, 10th International Congress on Industrial and Applied Mathematics (ICIAM 2023), Waseda University, Tokyo, Japan, 20-25 August 2023
10. Al Kasbi, A. & Purnama, A. (2023) Analytical Model of Effluent Discharges under Tidal Oscillations, Proc. 40th IAHR World Congress, Vienna, Austria, August 21-25, 2023
11. Al-Kasbi, A., Purnama, A. & Al-Mashrafi, K.S. (2023) Analytical Modeling of Effluent Discharges Spreading by Tidal Oscillation Currents on a Sloping Beach, Mathematical Modelling of Natural Phenomena (under reviewed).
12. Purnama, A., Al-Kasbi, A., & Balakrishnan, E. (2024). Spreading of Effluent Discharges from Two Adjacent Outfalls on Sloping Seabed in Spring-Neap Tidal Waters. SQU Journal for Science, Special Topic Issue in Mathematics (accepted).
13. Al-Kasbi, A., Purnama, A., & Al-Mashrafi, K.S. (2024). Analytical Modeling of Effluent Discharges Spreading by Tidal Oscillation Currents on a Sloping Beach. Mathematical Methods in the Applied Sciences (accepted).
14. Al-Kasbi, A., & Purnama, A. (2024). Optimizing Time-Varying Effluent Discharge in Tidal Waters and Sloping Beaches. Arabian Journal of Mathematics (submitted).
15. Purnama, A., Al-Kasbi, A., & Balakrishnan, E. (2024). Analytical Study on Dispersion of Marine Wastewater Discharges from Offshore Multiport Diffusers. Maritime Technology and Research (submitted).



GRANTS

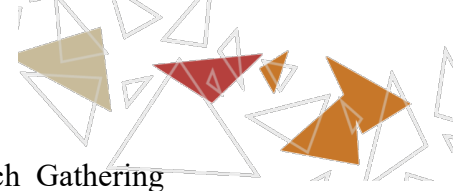
Project Description	Granting Body	Role
1 Analytical Study on Dispersion of Effluent Discharges into Tidal waters	SQU Internal Research Grant (IG-SCI-MATH-23-01)	Assistant Researcher

AWARDS AND SCHOLARSHIPS

2014	Full scholarship for the Degree of Master, Sponsored by: Sultan Qaboos University.
2017	Scholarship for the Degree of Doctoral, Sponsored by: Ministry of Education.

CERTIFICATE OF MERIT

2024	Certificate of Participation in International Conference: Recent Trends in Mathematics (ICM-SQU2024), Sultan Qaboos University, Muscat, Sultanate of Oman, March 4-6, 2024.
2023	Certificate of Participation in International Conference on Computing and Data Analysis (ICCDA'23), University of Technology and Applied Sciences (UTAS)-Ibri, Sultanate of Oman, December 10-12, 2023.
2023	Certificate of Participation in the 40 th IAHR World Congress, Vienna, Austria, from 21-25 August 2023.
2023	Certificate of Participation from Military Technological College for participating in “Mathematical Modelling Symposium, 2023”.
2022	Certificate of Appreciation from Oman Mathematics Committee for participating in “Women in Mathematics Day International Workshop”.
2022	Certificate of Thanks and Appreciation for participating in the Internal Training Program for Practicum students, College of Arts and Humanities, A'Sharqiyah University, Ibra, Sultanate of Oman.
2020	Certificate of Participation form Water Research Center at Sultan Qaboos University for participating in “The Second International Conference on Water Resources in Arid Areas 2020”.
2020	Certificate for organizing the 5 th International Conference on Numerical Analysis and Optimization (NAOV-2020), Muscat, Sultanate of Oman.
2020	Certificate of Participation in the 5 th International Conference on Numerical Analysis and Optimization (NAOV-2020), Muscat, Sultanate of Oman.
2019	Certificate for contributed a paper at the Third Cambridge-Sultan Qaboos Universities Symposium (CAMSQU2019), Muscat, Sultanate of Oman.
2019	Certificate of Organization of the Third Cambridge-Sultan Qaboos Universities Symposium (CAMSQU2019), Muscat, Sultanate of Oman.



- 2018 Certificate of Participation in the First Annual Research Gathering International Conference on “Operation Research and its Application” from Oman Mathematics Committee, Muscat, Sultanate of Oman.
- 2016 Certificate of Thanks and Appreciation for participating in the training program for participants in Arabian Gulf Mathematics Olympiad Competition (2016) from the Directorate General of Education, Sur.
- 2014 Certificate of Participation in the 3rd International Conference on Numerical Analysis and Optimization (NAOIII-2014), Muscat, Sultanate of Oman.
- 2010 Certificate of Participation from the Directorate General of Educational Assessment for passing the training program of “Using Mathematical Symbols and Geometrics Graphic Software for Preparing the Exams”.

LANGUAGES KNOWN

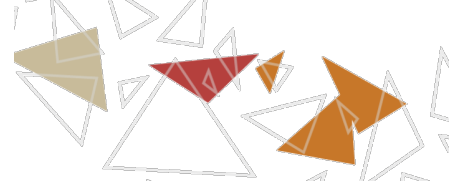
- English: Very good
- Arabic: Mother's tongue

PERSONAL SKILLS

- Effective and appropriate Teaching Strategies.
- Good at solving problems.
- Handle stress and overload work effectively.
- Good communication skills.
- Ability in public speaking and presentation skills.
- A good team player.
- Ability to learn any given tasks easily.

REFERENCES

Prof. Anton Purnama
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Sultan Qaboos University
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Dr. Easwaran Balakrishnan

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The facts stated in this CV are wholly true and I stand by his declaration now and always.

Ahmed Ali Hamed Al-Kasbi