

Curriculum Vitae

Personal Details:

Name: **Arjumand Rasool**
Gender: Female
Postal Address: New colony Nigeen, Srinagar, India
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Skype ID:

Objective:

Obtaining a responsible and challenging position where my education will have a valuable application. In addition, I may offer:

- Aggressive time-oriented work and positive attitude all the time.
- Excellent communication and interpersonal skills that enable me to motivate others.
- Organized work with creative approach toward problem solving.

Academic qualifications

Duration	Degree and Major Subjects	University/ Institution
2013 - 2019	Ph.D. [Mechanical Engineering (Heat Transfer and Fluid Flow)]	NIT Srinagar
2008 - 2010	M. Tech. (Mechanical System Design)	NIT Srinagar
2000 - 2004	B. E. (Mechanical)	Kashmir University

Professional Experience:

03.04.2013 to 04.04.2018 **Research Fellow** Department of Mechanical Engineering
NIT Srinagar.

DISSERTATION:

Ph. D.: Heat Transfer and Fluid Flow Characteristic in two-pass Square Channel with Rib Turbulators

Ph.D Supervisor: Prof. Adnan Qayoum

Department of Mechanical Engineering, NIT Srinagar, Kashmir, India.

M. Tech – Sustainability Evaluation of Mechanical Systems at Conceptual Design Stage

M. Tech Supervisor: Prof. M. F. Wani

Department of Mechanical Engineering, NIT Srinagar, Kashmir, India.
NIT Srinagar, Kashmir, India

Ph.D. Research Interest

- Heat Transfer Enhancement in Turbine Blade Cooling Channels
- Hot-spot Reduction in Gas Turbine Blades
- Improvement of Thermohydraulic Performance in Gas Turbine Blade cooling channels
- Simulation of various Heat Transfer problems related to Gas Turbines using COMSOL Software

Pertinent experience

Five years of Teaching, Five years of academic research experience focusing on Heat Transfer Enhancement in Turbine Blade Cooling Channels, and Two years of Industrial Experience in Research and Development at leading MNC in Gurgoan.

Ability

Research, teaching and training, and administrative service experience in academic setting. Ability to run and manage an independent research laboratory, including project design, collaborations, experimentation, submission and publication in manuscript form (as an author), submission of research grants to federal and private agencies; recruiting and supervising personnel and trainees.

Tools

COMSOL5.3a, AutoCAD 2017, TECHPLOT, ORIGIN

Laboratory Techniques/Procedures

Infrared Thermometry Technique for Temperature measurement, Micromanometer usage for a very minute pressure changes, Data loggers, Thermocouple and Data Acquisition Systems for accurate Temperature measurement, Hot-wire Anemometer for Velocity measurement

Additional Qualifications

6 months Certification Diploma (AutoCAD 2000) from AutoDesk registered center in Srinagar

Publications:

1. **Arjumand Rasool** and Adnan Qayoum, Numerical analysis of heat transfer and friction factor in two pass channels with variable rib shapes. *International Journal of Heat and Technology*, Vol. 36, No. 1, 2018, pp. 40-48 <https://doi.org/10.18280/ijht.360106>
2. **Arjumand Rasool** and Adnan Qayoum, Numerical Investigation of fluid flow and heat transfer in a two-pass channel with perforated ribs. *Pertanika Journal of Science and Technology*, *Pertanika J. Sci. & Technol.* 26 (4): 2009 - 2029 (2018)
3. **Arjumand Rasool**, Sarwar Masoodi and Raof Khan. Numerical Investigation of Heat Transfer and Pressure Drop in a Two-Pass Channel with Criss Cross Rib Patterns, *International Journal of Scientific and Technical Advancements*, Volume 5, Issue 1, pp. 163-170, 2019

MANUSCRIPT(S) UNDER COMMUNICATION

1. **Arjumand Rasool** and Adnan Qayoum. Experimental Investigation of heat transfer and fluid Flow Analysis in Two-pass channels with Criss-cross Ribs. *Journal of heat and Mass Transfer* (**Under Review**).

CONFERENCE ATTENDED

1. **Arjumand Rasool** and Adnan Qayoum, Effect of different rib shapes on heat transfer and pressure drop for a flow through a 2-pass square channel (42nd National Conference on FMFP-Dec 14-16, 2015, NIT Suratkal, India)
2. **Arjumand Rasool** and Adnan Qayoum, Experimental investigation of Heat and Fluid flow in a heated duct with perforated repeated ribs (6th International and 43rd National Conference on FMFP-Dec 15-17, 2016, NIT Allahabad, India)
3. **Arjumand Rasool** and Adnan Qayoum, Computational analysis of heat transfer and pressure drop for a flow through a 2-pass square channel with various rib shapes (17th ISME Conference-Oct 3-4, 2015, IIT Delhi, India)
4. **Arjumand Rasool** and Adnan Qayoum, Influence of repeated permeable ribs on heat transfer enhancement in a 2-pass square channel (5th international and 41st national conference on FMFP-Dec 12-14, 2014, IIT Kanpur, India)

References:

Dr. Adnan Qayoum

Professor and Ph. D., Mentor

Department of Mechanical Engineering

NIT Srinagar,

Srinagar, 190006

adnan@nitsri.ac.in

Dr. Farooq Ahmad Najar

Assistant Professor

Department of Mechanical Engineering

Kashmir University,

Srinagar, 190006

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DECLARATION

I hereby declare that the above information given by me is correct to best of my knowledge and respect.

Date: 27-12-2020

Place: Srinagar

(Dr. Arjumand Rasool)