

## CURRICULUM VITAE

**Dr. Khilap Singh**

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### CAREER OBJECTIVE

Seeking a position to utilize my thoughts and abilities in the institute that offers academic growth and knowledge

### PROFESSIONAL AND EDUCATIONAL QUALIFICATIONS

- **Ph. D.** with major in **Mathematics** and minor in **Computer Science** from **G.B. Pant University of Agriculture & Technology, Pantnagar, Uttarakhand, India.**
  - **Research Area:** *Computational Fluid Dynamics.*
  - **Thesis Title:** “A Study of Some Micro-polar Fluid Flow Problems”
- **M. Sc.** in **Mathematics** from **Birla Campus** of H. N. B. Garhwal University, Srinagar Garhwal, Uttarakhand, India.
- **B. Sc.** with **Mathematics, Physics and Chemistry** from **Govt. Degree College Talwari, Chamoli** of H. N. B. Garhwal University, Srinagar Garhwal, Uttarakhand, India.
- **B. Ed.** with subjects **Mathematics and Science** from **G. P. G. College Gopeshwar, Chamoli, Uttarakhand, India** of H. N. B. Garhwal University, Srinagar Garhwal, Uttarakhand, India.

### PROFESSIONAL BACKGROUND (Teaching Experience – 5+ Years, Research – 7+ Years)

<b>From</b>	<b>To</b>	<b>Designation</b>	<b>Organization</b>
May 1, 2020	Present	Assistant Professor (Temporary)	H. N. B. G. P. G. College Khatima, U. S. Nagar, Uttarakhand, India
April 23, 2019	March 21, 2020	Assistant Professor (Temporary)	H. N. B. G. P. G. College Khatima, U. S. Nagar, Uttarakhand, India
Oct 22, 2018	Feb 28, 2019	Assistant Professor (Temporary)	H. N. B. G. P. G. College Khatima, U.S. Nagar, Uttarakhand, India
Oct 8, 2018	Oct 16, 2018	Assistant Professor	G. P. G. College Talwari, Chamoli,

		(Temporary)	Uttarakhand, India
Aug 1, 2010	June 30, 2011	Teaching Personnel	V. C. S. G. College of Horticulture, Bharsar, Pauri Garhwal, Uttarakhand, India

### AWARDS/ ACHIEVEMENT

- Qualified **Joint CSIR-UGC** test for Junior Research Fellowship and eligibility for Lectureship (**NET**) in Mathematical Science and secured **AIR-88**.
- Qualified **GATE (Graduate Aptitude Test in Engineering)-2014** and secured **AIR-102**.
- Got **UGC – Junior Research Fellowship** from Jan 17, 2013 to Jan 16, 2015.
- Got **UGC – Senior Research Fellowship** from Jan 17, 2015 to Jan 16, 2018.
- Got **NSS A, B and C** certificates.
- **Reviewer of various international journals** like Journal of Porous Medium, Journal of Heat and Technology, Jordan Journal of Mechanical and Industrial Engineering, Multidiscipline Modeling in Materials and Structures, IEEE ACCESS etc.
- Peer Reviewer of the 2nd International Conference on Material Strength and Applied Mechanics (MSAM 2019) held in Kiev (capital of Ukraine) during May 27-30, 2019.
- Appointed to the post of Assistant Professor (Mathematics) in Nims Institute of Engineering & Technology, Nims University Rajasthan, Jaipur, on September 2, 2019.

### MEMBERSHIP

- ❖ Indian Mathematical Society, **Lifetime** Member
- ❖ Indian Society for Heat and Mass Transfer -ASME, **Lifetime** Member.

### TECHNICAL SKILLS

- ❖ Operating system : Windows
- ❖ Programming Languages : FORTRAN 77
- ❖ Application Software : MATLAB, ORIGIN, MS-OFFICE, Linex, Math type, SAS, R etc.

### **Research Papers Publiced/Accepted:**

1. **Khilap Singh**, A. K. Pandey, and Manoj Kumar, Slip flow of micropolar fluid through a permeable wedge due to the effects of chemical reaction and heat source/sink with Hall and ion-slip currents: An analytic approach, *Propulsion and Power Research* 9(3) (2020) 298-303. **SCIE**.
2. **Khilap Singh**, M. Kumar and A. K. Pandey, Melting and Chemical reaction effects in Stagnation Point Flow of Micro-polar Fluid towards a Stretching Sheet in Porous medium in the Presence of non-Uniform Heat Source/sink, *Journal of porous medium* 23(8) (2020) 767-781, **SCI, SCOPUS, I.F=1.752. DOI: 10.1615/JPorMedia.2020024600**.
3. **Khilap Singh**, A. K. Pandey, Manoj Kumar, Entropy Generation Impact on Flow of Micropolar Fluid via an Inclined Channel with Non-Uniform Heat Source and Variable Fluid Properties, *International Journal of Applied and Computational Mathematics*. Volume: 6. Issue: 3. 2020. **SCOPUS**.
4. **Khilap Singh**, A. K. Pandey, Manoj Kumar, Analytical approach to a stagnation point flow and heat transfer of a micropolar fluid via a permeable shrinking sheet with slip and convective boundary conditions, *Heat Transfer Research*, 50(7): (2019) 1–18, DOI: 10.1615/Heat Trans Res.2018024647. **SCI, SCOPUS, IF=0.404**.
5. **Khilap Singh**, Manoj Kumar, Melting and heat absorption effects in boundary layer stagnation-point flow towards a stretching sheet in a micropolar fluid, *Ain Shams Engineering Journal*, 9 (2018) 861–868. **SCI, SCOPUS, IF=3.091**.
6. **Khilap Singh**, M. Kumar, MHD Slips Flow of a Micro-polar Fluid Due to Moving Plate in Porous Medium with Chemical Reaction and Thermal Radiation: A Lie Group Analysis, *International Journal of Applied and Computational Mathematics*, 1-17, (2018) 4:104. **SCOPUS**.
7. B. C. Bhatt, G. Pathak and **Khilap Singh**, Heat and mass transfer flow of MHD nanofluid over permeable stretching sheet in a porous medium with chemical reaction: A Lie group analysis, *International Journal of Engineering Papers*, November 2018; 3 (1): 29–42.
8. B. C. Bhatt, G. Pathak and **Khilap Singh**, Influence of non-uniform heat absorption/generation on MHD flow via a permeable stretching cylinder in porous medium due to nanofluid, *International Journal of Research and Analytical Reviews*, Volume 6, Issue 2, Pages 383-396, 2019.

9. **Khilap Singh**, M. Kumar, Influence Of Chemical Reaction On MHD Boundary Layer Flow Of A Micropolar Fluid Over A Wedge With Hall And Ion-Slip Currents, International Journal of Engineering Papers, January 2018; 3 (1): 1–9.
10. **Khilap Singh**, Sawan K. Rawat and Manoj Kumar, Heat and Mass Transfer on Squeezing Unsteady MHD Nanofluid Flow between Parallel Plates with Slip Velocity Effect, Journal of Nanoscience, Volume 2016, Article ID 9708562, 11 pages, <http://dx.doi.org/10.1155/2016/9708562>.
11. **Khilap Singh**, M. Kumar, Effects of thermal radiation on mixed convection flow of a micro-polar fluid from an unsteady stretching surface with viscous dissipation and heat generation/absorption, International Journal of Chemical Engineering, Volume 2016, Article ID 8190234, 10 pages, <http://dx.doi.org/10.1155/2016/8190234>. **SCOPUS**.
12. **Khilap Singh**, M. Kumar, Influence of chemical reaction on heat and mass transfer flow of a micro-polar fluid over a permeable channel with radiation and heat generation, Journal of Thermodynamics, Volume 2016, Article ID 8307980, 10 pages, <http://dx.doi.org/10.1155/2016/8307980>. **SCOPUS**.
13. **Khilap Singh** and Manoj Kumar, The Effect of Chemical Reaction and Double Stratification on MHD Free Convection in a Micropolar Fluid with Heat Generation and Ohmic Heating. Jordan Journal of Mechanical and Industrial Engineering, Volume 9 Number 4, 2015, Pages 279–288. **SCOPUS**.
14. A. K. Pandey, Manoj Kumar, **Khilap Singh**, Lie Group Analysis on Boundary Layer Flow of Nanofluid over a Stretching Sheet with Thermal Radiation, SRMS Journal of Mathematical Sciences, Volume 2, Number 2, 2015, Pages 38-48, ISSN 2394-725X.
15. **Khilap Singh**, Manoj Kumar and A. K. Pandey, Melting Heat Transfer in Boundary Layer Stagnation-Point Micropolar Fluid Flow towards a Stretching Sheet in Porous Medium with Heat Absorption, SRMS Journal of Mathematical Sciences, Volume 2, Number 2, 2015, Pages 1-11, ISSN 2394-725X.
16. **Khilap Singh** and Manoj Kumar, Effect of Viscous Dissipation on Double Stratified MHD Free Convection in Micro-polar Fluid Flow in Porous Media with Chemical Reaction, Heat Generation and Ohmic Heating, Chemical and Process Engineering Research, Vol.31, 2015, page 75-80, ISSN 2224-7467 (Paper), ISSN 2225-0913 (Online).
17. **Khilap Singh** and Manoj Kumar, Melting heat transfer in boundary layer stagnation point flow of MHD micro-polar fluid towards a stretching / shrinking surface, Jordan Journal of Mechanical and Industrial Engineering. Volume 8 Number 6, December 2014, Pages 403 – 408, ISSN 1995-6665. **SCOPUS**.

### **Research Papers Published in Conference Proceedings:**

1. **Khilap Singh**, A. K. Pandey, Manoj Kumar, Effect of viscous dissipation in boundary layer stagnation point flow of micropolar fluid towards a stretching surface with melting heat transfer, proceedings of 60th congress of ISTAM-2015 (<http://istam.iitkgp.ac.in>).
2. **Khilap Singh** and Manoj Kumar, Combined effect of heat generation and thermal radiation on mixed convection flow of a micropolar fluid over a non-linearly stretching sheet, Proceeding of the conference on Advance techniques & devices in mathematics & Physical Sciences (CATDMP-2015), *Excellent Publishers New Delhi*, ISBN: 978-93-84935-11-5.
3. **Khilap Singh** and Manoj Kumar. Effect of thermal radiation on melting heat transfer in stagnation point flow of MHD micropolar fluid towards a stretching surface. *International Journal of Advanced Engineering Research and Technology*, Volume 3, 2014, pp. 22-28, ISSN: 2348-8190.
4. **Khilap Singh**, Padam Singh and Manoj Kumar. Melting heat transfer in boundary layer stagnation point flow of micro polar fluid towards a stretching/shrinking surface in porous medium. *International Journal of Engineering and Technical Research*, Special Issue (2014), pp. 138-141.

### **Seminars/Conferences/Workshops/Symposium/Training Programme etc. participated as Paper Contributor/Presenter**

1. Presented a paper entitled “COVID-19 and Environment: A Critical Review and Research Agenda” in the internet based **National Conference on “Relevance of Veda, Science & Technology in COVID-19”** held at Department of Computer Science, Faculty of Technology, Gurukula Kangri Vishwavidyalaya Haridwar, Uttarakhand, India, during July 30-31, 2020.
2. Presented a paper entitled “Melting heat transfer in boundary layer stagnation point flow” in the **National Conference on “Applications of Mathematics Science, Technology & Management (AMSTM)”** held at Department of Mathematics, Shri Ram Murti Smarak College of Engineering & Technology, Bareilly, U.P., India, during January 22-23, 2016.

3. Presented a paper entitled “Effect of viscous dissipation in boundary layer stagnation point flow of micropolar fluid towards a stretching surface with melting heat transfer” in the **60<sup>th</sup> Congress of Indian Society of Theoretical and Applied Mechanics: An International Conference (ISTAM-2015)**” held at Mechanical Engineering Department, Malaviya National Institute of Technology Jaipur, India, during December 16-19, 2015.
4. Presented a paper entitled “Effect of viscous dissipation on double stratified MHD free convection in micro-polar fluid flow in porous media with chemical reaction, heat generation and Ohmic heating” in the **International Conference on “Modeling, Simulation and Optimizing Techniques (ICMSOT-2015)**” held at Post Graduate Department of Mathematics, DAV College, Jalandhar Punjab, India, during February 12-14, 2015.
5. Presented a paper entitled “ Combined effect of heat generation / absorption and thermal radiation on mixed convection flow of a micro-polar fluid over a non-linearly stretching sheet”, in the **International Conference on “Advance Techniques & Devices in Mathematics & Physical Science**”, held at Department of Mathematics & Physics SRM University, Delhi- NCR Campus, Ghaziabad, U.P, India, during January 23-25, 2015.
6. Presented a paper entitled “Effect of thermal radiation on melting heat transfer in stagnation point flow of MHD micro-polar fluid towards a stretching surface”, in the **International Conference on “Recent Trends & Issues in Engineering and Technology**” held at Divya Jyoti College of Engineering & Technology Modinagar, Ghaziabad (U.P), India, during August 30-31, 2014.
7. Presented a paper entitled, “Melting and heat absorption effects in boundary layer stagnation-point flow towards a stretching sheet in a micro polar fluid”, in the **International Conference on “Soft Computing Techniques for Engineering & Technology**” held at the Graphic Era Hill University Bhimtal Campus, Nainital, Uttarakhand, INDIA, during August 7-8, 2014.
8. Presented a paper entitled “**Melting heat transfer in boundary layer stagnation point flow of micro polar fluid towards a porous stretching/shrinking surface**”, in the **National Conference on “Synergetic Trends in Engineering & Technology**” held at the Eshan College of Engineering Farah Mathura (U.P), India, during April 25-26, 2014.

**Seminars/Conferences/Workshops/Symposium/Training Programmes etc.**  
**attended only**

1. Participated in **National Virtual Conference on “Recent Advances in Analytical Techniques-2020”** held at Uttarakhand Science Education and Research Centre (USERC) Department of Science and Technology, Government of Uttarakhand, India, during August 16-17, 2020.
2. Participated in **International Virtual Conference on “Modern Instrumental and Characterization Techniques in Applied Sciences–2020 (MICTAS-2020)”** held at MIET Kumaon, Shiksha Nagar, Lamachaur, Haldwani (Nainital) Uttarakhand, India & Department of Chemistry, H.N.B. Govt. P.G. College, Khatima, Uttarakhand, India, **In collaboration with** Uttarakhand Science Education and Research Centre (USERC) Department of Science and Technology, Government of Uttarakhand, India & Department of Chemistry, Radhey Hari Govt. P.G. College, Kashipur, Uttarakhand, India, during July 5-6, 2020.
3. Participated in **International Webinar on “Contribution of Language, Literature and Genres in Covid-19 Public Awareness Campaign and Dimensional Changes in Social Science”** held at Government Raza P. G. College, Rampure – 244901 (UP) India, on May 26, 2020.
4. Participated in **National Seminar on Applications of Graph & Network in Computational Studies, Bioinformatics and Engineering and its Technical Terminology** held at School of Computational and Integrative Sciences, Jawaharlal Nehru University, New Delhi-110067 and in collaboration with Commission for Scientific & Technical Terminology, Ministry of Human Resource Development (Department of Higher Education), Govt. of India, during March 12-14, 2018.
5. Participated in **National Seminar on “Interdisciplinary Approach of Science in Advancement of Technology: Art of Human Welfare (IASAT-15)”** held at Galgotias College of Engineering & Technology, Greater Noida, U.P., India, during October 15-16, 2015.
6. Participated in **Training Programme on “Effective use of e-Resources”** held at University Library, G. B. P. U. A. & T Pantnagar, Uttarakhand, India, on May 1<sup>st</sup>, 2015.
7. Participated in **Training Programme on “Effective use of e-Resources”** held at University Library, G. B. P. U. A. & T Pantnagar, Uttarakhand, India, on November 28, 2014.

8. Participated in **National Conference** on “**Application of Mathematics in Science, Technology and Management (AMSTM-2014)**” held at Department of Mathematics, Shri Ram Murti Smarak College of Engineering & technology, Bareilly, INDIA, during January 24-25, 2014.

### **PERSONAL DETAILS**

Name : Khilap Singh

Father's Name : Surendra Singh

Date of birth : July 05, 1986

Present address : Department of Mathematics  
H. N. B. Post Graduate College Khatima  
U. S. Nagar, Uttarakhand, India 262 308

Permanent address : Village - Nagar Kotiyana  
Post Office - Harmani  
Chamoli, Uttarakhand, India 246 481

Nationality : Indian

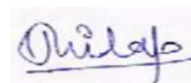
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Dr. (Khilap Singh)