

SONIA SINGLA

Advisory Editorial Board Member at IJPBS and reviewer at ASTESJ Journal

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· <https://www.linkedin.com/in/soniasinglabio/> ·

aster28.github.io/solution2/site

Looking for a Data Science job where I can apply my skills acquired during studies and Internship. Highly effective at incorporating creative leadership skills to achieve business objectives. Guide project with improved efficiency while meeting deadlines and budget requirements.

Visa - Eligible to work in U.K.

KEY SKILLS

- Team Player and always ready to take initiatives to achieve the objectives, goals and targets
- Able to work in an organized manner despite Time pressure, possesses strong analytical skills and learning aptitude
- Highly motivated, flexible, arduous, Training of two months for IT skills, including computer programming language Java, Python.
- Proficient with Human Resource Management systems workday.
- English and Academic Skills certificate from University of Birmingham
- Programming languages such as Java, Python.
- Statistical computing software such as R, Databases such as MySQL.
- Office tools such as MS Word, MS Excel, Power Point

Jan 2021- Current IndiaAI (<https://indiaai.gov.in/author/Sonia%20Singla>)

June 2021 – Current Analytics Vidhya (<https://www.analyticsvidhya.com/blog/author/s>)

Medium - <https://medium.com/@ssoniyaster>

I have been selected for Indian Achievers award 2022 and have also received the best reviewers award for 2020-2021.

Educational Qualifications

2011 – 2015 Due to personal family circumstances, I wasn't able to pursue my career goals after graduation, however I managed keep in touch with my domain by doing various eLearning courses (details mentioned later under training courses)

2009 - 2011 Master of Science in Bioinformatics, University of Leicester, U.K

(Main Subjects: *Gene and genome analysis, Proteins – introduction and tools available to analyze them, Bioinformatics related computing skills such as Java, Databases and Perl*)

2001 - 2003 Master of Science in Biotechnology, Bangalore University, India

(Main Subjects: *Genetics, Immunology, Molecular Biology, Microbiology and Statistics*)

1998 - 2001 Bachelor of Science, Himachal Pradesh University, India, (Main Subjects: *Botany*,
Zoology and Chemistry)

Academic Research Activities:

2009 - 2010 Independent Research Project, University of Leicester, UK

Research Supervisors: Dr Mohammed El-Mezgueldi, Dr. Ralf Schmid

Main Activities:

- Identify adaptations in the troponin functional sites and residues that modulate their functions by applying sequence analysis, molecular modelling techniques and phylogenetic analysis

2009 - 2010 Steered Research Project 2, University of Leicester, UK Research

Supervisors: Dr. Ralf Schmid and Dr Mark Pfuhl

Main Activities:

- Identify whether the given blood sample sequence is an interesting drug target
- Produce a phylogenetic tree showing the relationship to other protein sequences
- Produce the homology model of these proteins in its functional forms, and to identify active site residues, finding structure of similar proteins in the PDB
- Share the analysis online via creation of a website

2009 - 2010 Steered Research Project 1, University of Leicester, UK Research Supervisors: Dr.

Richard Badge and Dr. Eran Tauber

Main Activities:

- Exploring circadian clock genes by data mining of microarray experiments with the extensive use of R-package and Gene Ontology

2003 Master Thesis, Bangalore University & University of Agricultural Sciences Research

Supervisors: Dr. P.Narayanswamy

Main Activities:

- DNA fingerprinting on Open Pollinated Progeny of Mallika (Indian Mango cultivar) by using RAPD markers

Professional Research Activities:

2005 - 2007 Research Trainee, National Research Centre on Plant Biotechnology, New Delhi, India

Mentor: Dr. Aqbal Singh

Main Activities:

- Analyzing genetic diversity and relations between different stains of Rhizobium
- Assessment of molecular diversity among natural isolates of Mesorhizobium ciceri of chick pea.
- Handling of large number of bacterial strains and study of their nitrogen fixing ability by nodulation assay, isolate their genomic and plasmid DNA and PCR amplification
- Further study of the diversity among these isolates using RAPD and RFLP molecular markers

Training Courses

2011 – 2015 completed various eLearning programs:

- Learn to Program: The Fundamentals, University of Toronto (Grade 73.9%)
- Learn to Program: Crafting Quality Code, University of Toronto (Grade 70.0%)
- Computational Molecular Evolution, Technical University of Denmark (Grade: 100.0% with Distinction)
- What a Plant Knows, Tel Aviv University (Grade: 89.9%)
- Web Intelligence and Big Data (Indian Institute of Technology Delhi, Grade: 82.2%)
- Preparation for Introductory Biology: DNA to Organisms, University of California, Irvine (Grade: 73.1% with Distinction)
- Animal Behaviour, The University of Melbourne (Grade: 71.3%)
- Dino 101: Dinosaur Paleobiology, University of Alberta (Grade: 88.3%)
- Bioinformatics: Introduction and Methods 生物信息学: 导论与方法, Peking University (Grade: 88.2%)
- Computing for Data Analysis, Johns Hopkins University (Grade: 86.0%)
- Animal Behaviour and Welfare, The University of Edinburgh (Grade: 82.0%)
- Introduction to Pharmacy, The Ohio State University (Grade: 86.0% with Distinction)
- Programming for Everybody Python, University of Michigan (Grade: 77.0%)

Dec 2008

English and Academic Skills, University of Birmingham, U.K

Aug-Sep 2008 Computer Fundamentals, Core Java Programming, HTML, DHTML, Client Side Scripting with JavaScript, Aptech Computer Education, Faridabad, INDIA

2014 Core Java with Experienced Engineers in IT fields, Faridabad, INDIA.

EXPERIENCE IN IT

June 2021 [Sonia Singla, Author at Analytics Vidhya](#)

MAR 2019- APR 2019

FRONT-END DEVELOPER – CSIR

As an intern I am responsible for creating the front-end of the system which is built on Hyperledger Fabric (blockchain technology)

Swasthya Blockchain - DEMO

https://drive.google.com/file/d/1fyIY2AtDFywuUtOwxpfg_9_G7D7ZO5LW/view?usp=sharing

JUN 2017 – SEP 2018

A) GRAPHIC DESIGNER HIMALAYA, UK

- DEVELOP THE OVERALL LAYOUT AND PRODUCTION DESIGN FOR ADVERTISEMENTS, BROCHURES, MAGAZINES, AND CORPORATE REPORTS
- CREATE VISUAL CONCEPTS TO COMMUNICATE IDEAS THAT INSPIRE, INFORM, AND CAPTIVATE EVERYONE WHO COMES ACROSS OUR CONTENT

B) VIDEO MAKING / EDITING C) SOCIAL MEDIA MARKETING

D) MAKING WEBSITE

JULY 2017 – SEP 2017

GRAPHIC DESIGNER AWOHES, INDIA

JUN 2017 – AUG 2017

WEB DEVELOPMENT AWOHES, INDIA

ADDITIONAL EXPERIENCE

SEP 2018 – DEC 2018



INTERNSHALA WOMAN AMBASSADOR INTERNSHALA

As an Intern I must help many women in (re)starting their career, and building a professional identity for themselves, to inform as many women about 'Internshala' and 'Internships for Women' and encourage them to register on website.

- Creating awareness about the 'Internships for Women' initiative among the women in their network (through offline and online marketing) and help them in (re)starting with their careers through internships. Some of the activities will be performing are social media marketing, conducting FB Live sessions, talking to women of locality, etc.

JUN 2017 – AUG 2017

HR MANAGER LUDIFU

As an Intern my duty was to select interns for Social Media Marketing and assign them task and give certificates after successful completion of Internship.

- Handling recruitment
- Coordinating with the team
- Providing daily reports to the management

NOV 2011 – APR 2012

PROJECT SUPPORT ASSISTANT RUGBUGS, U.K

Administrative duties and Business support to marketing a new range of products on website

EXPERIENCE IN RESEARCH WORK

AUG 2017 – DEC 2018

RESEARCH CSIR, INDIA

DATA SCIENCE IN HEALTH CARE.

DATA ANALYTICS- WEB SCRAPPING Examples -

<https://drive.google.com/open?id=1CiqxB8leaYTSD5OnSORollNCRHA-o4B6>

DEC 2018 – JAN 2019

Blogging My Analytics mentor, INDIA

Examples-

<https://myanalyticsmentor.com/blogs/why-freshers-find-it-difficult-to-get-data-science-jobs>

<http://myanalyticsmentor.com/blogs/why-data-scientist-job-as-a-carrier>

<http://myanalyticsmentor.com/blogs/mistakes-to-avoid-in-analytics-preparation>

<https://myanalyticsmentor.com/blogs/why-is-julia-a-good-emerging-language-for-data-science>

PUBLICATIONS

○ Impact of Diwali firecrackers on air quality in India and its effect on the health-

- <http://dx.doi.org/10.22376/ijpbs.2019.10.2.b155-169>
- Current status and Data Analysis of Diabetes in India - <https://lnkd.in/dczM8d6>
- Role of yoga for people suffering from Schizophrenia in India. - <https://lnkd.in/dUxMMZG>
- Data Analysis and classification of cardiovascular disease and risk factors associated with it in India.
- Data Analysis and Classification of Cardiovascular Disease and Risk Factors Associated with It in India | SpringerLink
- Fog Edge- [Future Opportunistic Fog/Edge Computational Models and their Limitations](#)
- Cancer- [4 Machine learning: an ultimate solution for diagnosis and treatment of cancer](#)
- AI- [Role of AI in Healthcare](#)
- Ontology - [Role of Ontology in Health Care](#)
- Virtual Reality - [virtual reality in non communicable diseases](#)

- Smart City a change to a new future world- Upcoming Paper in Feb 2022
- Troponin Sequence variation in Health and Disease – **Book**
- COVID-19 THE GREAT EPIDEMIC OF THE YEAR 2020 -**Book**
- AI and IoT in Healthcare - AI and IoT in Healthcare | SpringerLink

REFERENCES

- ✦ *Er. Aman Choudhary, Managing Director at Amsparx IT Consulting, India (email: aman.monu@gmail.com)*
- ✦ *Dr Sukant Khurana, Head of Data Science, AI, and Neurophysiology Lab, India (email: skgroup.iiserk@gmail.com)*
- ✦ *Ms. Arifa Khan, Founder of Himalaya Labs and Fintech Storm, U.K (email: arifa_khan@yahoo.com)*
 - ✦ *Dr Richard Badge, Department of Genetics, University of Leicester, U.K (email: rmb19@le.ac.uk)*
 - ✦ *Mr Raju Dharna, Bioinformatics Consultant, ETC SPL, Brighton, U.K (email : rdharna@etcspl.com)*
 - ✦ *Dr Ralf Schmid, Department of Biochemistry, University of Leicester, U.K (email: rs206@le.ac.uk)*
 - ✦ *Mr Alex Clay, RugBugs, Birmingham, U.K (email: info@rugbugs.co.uk)*





RAJA BALWANT SINGH ENGINEERING TECHNICAL CAMPUS

Bichpur, Agra

(Affiliated to Dr. A.P.J. Abdul Kalam Technical University, Lucknow, Uttar Pradesh, India)

On the 125th Birth Anniversary of Greatest Mathematician S. Ramanujan

1st Virtual International Conference

on

Recent Trends of Teaching and Research in Applied Sciences & Engineering (ICASE 2020)

(22-23rd Dec, 2020)

CERTIFICATE



This is to certify that Prof./Dr./Mr./Ms./Mrs.

Sonia Singla

of
has

Advisory Editorial Board Member UPBS

participated/presented (Oral/Poster) paper/delivered Invited Talk titled

In the 1st Virtual International Conference on "Recent Trends of Teaching and Research in Applied Sciences & Engineering (ICASE 2020)" organized by Department of Applied Science and Humanities, R. B.S. Engineering Technical Campus, Bichpur, Agra (Uttar Pradesh) India.

Dr. S.B. KULSHRESHTHA
Organising secretary

DR. AMIT KUMAR SINGH
Convener

PROF. PANKAJ GUPTA
Director (Admin. & Finance)

PROF. B. S. KUSHWAH
Director (Academics)



सी.एस.आई.आर.-केंद्रीय औषधि अनुसंधान संस्थान, लखनऊ
(वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद्)
सेक्टर 10, जानकीपुरम विस्तार, सीतापुर रोड, लखनऊ - 226 031 (भारत)
CSIR - Central Drug Research Institute
(Council of Scientific & Industrial Research)
Sector 10, Janakipuram Extension, Sitapur Road, Lucknow - 226 031 (India)



November 15, 2017

Certificate of excellence in research

To whomsoever it may concern:

Sonia Singla worked on the evaluation of Ethnobotany of Nadia district of West Bengal. The project was between February 2016 and November 2017. This was work from home internship. Sonia Singla completed 50 documents demonstrating a zeal for scientific research. This certificate ascertains excellent conduct and merit. I strongly recommend Sonia Singla for further research and development activities and other positions of responsibility.

Best wishes,

SukantKhurana, Ph.D.

Scientist

CSIR-CDRI



सी.एस.आई.आर.-केंद्रीय औषधि अनुसंधान संस्थान, लखनऊ
(वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद्)
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(Council of Scientific & Industrial Research)
Sector 10, Janakipuram Extension, Sitapur Road, Lucknow - 226 031 (India)



April 14th 2018

Certificate of participation and letter of appreciation

To whomsoever it may concern:

Sonia Singla played an important role in data collection and analysis of data on **Parkinson's disease** and **Epilepsy** for the project "**Data science study for disease awareness**". During the study, I found her a hard working and dedicated person. Based on her contribution in the data science study, we are highly thankful. She would be an asset of any organization with whom she would be engaged. I recommend her strongly for future studies and research opportunities. If you have any questions about her performance, feel free to contact me.

Best wishes,



Sukant Khurana, Ph.D.

Scientist Fellow CSIR-CDRI



सी.एस.आई.आर.-केन्द्रीय औषधि अनुसंधान संस्थान, लखनऊ
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(Council of Scientific & Industrial Research)
Sector 10, Janakipuram Extension, Sitapur Road, Lucknow - 226 031 (India)



January 8, 2019

Certificate of Appreciation

To whomsoever it may concern:

Sonia Singla had joined the **Fine Arts Data science Internship** under my guidance and has been working with my group since the December 24th 2017 till June 30th 2018 in a work from home data science internship. During this internship, she helped in data collection from various art galleries across the world, Data

Cleaning, and also Data Visualization using R and Python. Her work was commendable and this certificate is a token of appreciation for her work. She would be an asset to any organization with which she would be engaged. I wish her good luck for the future studies and research opportunities that she may apply for.

Best wishes,

A handwritten signature in black ink, reading "Sukant Khurana". The signature is fluid and cursive, with the first name "Sukant" and last name "Khurana" clearly distinguishable.

Sukant Khurana, Ph.D.

Scientist Fellow CSIR-CDRI



INDIAN ACHIEVERS' FORUM

Promoting Achievements that Inspire Businesses & Communities

ACHIEVERS' WORLD

Exploring Excellence

May 24, 2022

Ms. Sonia Singla
Independent Researcher
Faridabad

Sub: Selection for the Indian Achievers' Award

Dear Ms. Singla,

We wish to inform you that your name has been approved for the prestigious **"Indian Achievers' Award"** among the selected few from your respective field and region. The Award presentation ceremony shall be held during the "62nd National Summit on Atmanirbhar Bharat: Vision of New India" on 14th July, 2022 in New Delhi.

Hundreds of delegates from different fields and states will be participating in this summit. This summit is being organized to highlight the achievements of individuals and organizations towards nation building. On this occasion you'll be conferred upon **"Indian Achievers' Award"** for your outstanding contribution towards progress and development of Indian economy and society. The Summit will be graced by Sr. leaders, diplomats, prominent personalities and head of corporates.

The detailed program schedule and invitation card for this summit will be sent to you after we have received confirmation for your participation in this summit along with participation fee on or before **3rd June 2022**. In case of any clarification please feel free to contact Ms. Varsha, Summit Manager at +91-9310044542, vs@iafindia.com. You may also visit our website - www.iafindia.com.

With best wishes,

Harish Chandra
President

Enclosed: Registration Link

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