

## **CURRICULUM VITAE**

NAME: Sicily Rilu Joseph

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### **EDUCATION:**

- Post Graduate in Chemistry from St.Teresa's College(Autonomous) affiliated to MG University, Kottayam in 2017 with A+ (95%).
- Chemistry graduate from St.Teresa's College, Ernakulam(under MG University, Kottayam) in 2015 with 94.5%.
- Passed Senior School Certificate Examination(Class 12) from Assisi Vidyaniketan Public School(CBSE) in 2012 with 87.4%.
- Passed Secondary School Examination(class 10) from Assisi Vidyaniketan Public School(CBSE) in 2010 with 95%.

### **TEACHING EXPERIENCE:**

- Working as a guest faculty in the Department of Chemistry and Centre for Research of St. Teresa's College(Autonomous), Ernakulam from 4 June 2018 till date (2.5 years).
- Developed a Short Learning Objective(SLO-e content) on Microscale volumetric analysis as a part of Faculty Development Programme organized by the Internal Quality Assurance Cell(IQAC) of St.Teresa's College in collaboration with Mahatma Gandhi University, Kottayam (<https://www.youtube.com/watch?v=3mXo9ISzYs0>)

### **RESEARCH EXPERIENCE:**

- Ongoing work under the guidance of Dr.Jaya.T. Varkey - 'Design and Fabrication of antibacterial nano fiber tea bags for clean drinking water' approved by the Business Innovation and Incubation Centre(BIIC) of Mahatma Gandhi University, Kottayam.
- Guided the following projects:
  - B.Sc. projects of final year B.Sc. Chemistry students of Department of Chemistry and Centre for Research of St.Teresa's College(Autonomous),Ernakulam during the academic year 2019-2020:
    - 'Green synthesis and characterization of Graphene Quantum Dot'
    - 'Synthesis and Characterization of Salicylaldehyde and p-Chloroaniline and its coordination complex with Zinc'
  - Guided two projects of final year B.Sc Chemistry students of Department of Chemistry and centre for Research of St. Teresa's College(Autonomous),Ernakulam during the academic year 2018-2019:
    - 'Synthesis and Characterization of Starch-Urea based biodegradable polymeric ligand and its coordination complex with Zn(II) metal'
    - 'Synthesis, Characterization and antimicrobial studies of Schiff base and its metal complexes.'

- Worked as an Intern at Department of Chemistry and Centre for Research of St. Teresa's College(Autonomous), Ernakulam for three months(February-May,2018) under the guidance of Dr. Jaya.T.Varkey.

### **PUBLICATIONS:**

- Lab Manual on Microscale Volumetric Analysis for Complimentary Chemistry, Published by Teresian Publishing House, Ernakulam. Saritha Chandran A., Sicily Rilu Joseph, June 2019, ISBN: 978 8172 55 114 8
- Lab Manual on Microscale Volumetric Analysis for Core Chemistry, Published by Teresian Publishing House, Ernakulam Saritha Chandran A., Sicily Rilu Joseph, June 2019, ISBN: 978 8172 55 113 1
- Published a paper titled 'Synthesis, characterization and antimicrobial studies of biodegradable polymers and their polymer metal complexes' in World Journal of Pharmaceutical Research(ISSN 2277-7105,Volume 6,Issue 17,1111-1125)

### **PAPER PRESENTATIONS:**

- Presented a paper (poster) in Prof. K.V.Thomas Endowment International Symposium on 'New Trends in Applied Chemistry' (NTAC-2017) organized by the Post Graduate and Research Department of Chemistry, Sacred Heart College, Thevara, Kochi on 9-11 February,2017.
- Presented a paper(poster) in the UGC sponsored National seminar on 'Advancements in Polymer Science and Technology' organized by Post Graduate Department of Chemistry, St. Teresa's College(Autonomous), Ernakulam on 24-25 January,2017.
- Presented a paper (oral) in the National Seminar on 'Nanomaterials and its Advances in Chemical and Life Sciences' organized by the Department of Chemistry, St. Xavier's College for Women, Aluva on 5,6 January 2017.
- Presented a paper (oral) entitled 'Biodegradable polymers in heterogeneous catalysis and their antimicrobial activities-a green chemical approach' in the 26<sup>th</sup>Swadeshi Science Congress organized by Swadeshi Science Movement, Kerala at CMFRI, Kochi during 7-9 November,2016.

### **PROJECTS DONE:**

- BSc Project- 'Spectrophotometric determination of Iron content in leaf samples' under the guidance of Mrs. Anitta Antony in the academic year 2014-2015.
- MSc Project-'Synthesis, Characterization and antimicrobial studies of biodegradable polymers and its metal complexes' under the guidance of Dr.JayaT.Varkey in the academic year 2016-2017.

## **OTHER ACHIEVEMENTS AND CERTIFICATES:**

- Participated in one week National FDP on Capacity Building in Drafting Proposals for Funded Research organized by Guru Angad Dev Teachin Learning Centre, PMMMMNMTT of MHRD and St. Teresa's College from 5<sup>th</sup> to 11<sup>th</sup> October 2020.
- Participated in Heartian Science Congress lecture organized by SH College, Thevara on October 19, 2020.
- Completed 5 day National FDP on Fine tuning your research with online Research tools organized by St. Teresa's College from 12<sup>th</sup> to 17<sup>th</sup> October, 2020.
- Participated in International webinar series on Advanced topics in Chemistry organized by St. Joseph's College, Calicut on October 14<sup>th</sup> 2020.
- Participated in webinar on Next Generation Antibiotics by Prof. Ada.E. Yonath organized by CMS College, Kottayam on 12<sup>th</sup> October 2020
- Participated in One day International Webinar on Applied Chemistry and Nanomaterials organized by SNM Colege, Maliankara on 28<sup>th</sup> September 2020.
- Participated in One-week faculty development program on Statistical Thermodynamics organized by PG Department of Chemistry, Payyanur College during 21-25 and 29, 30 September 2020.
- Participated in Nobel Laureate Lecture Series-3 on 'Steps towards complex matter Chemistry' by Dr. Jean Marie organized by M.A Colege, Kothamangalam on 7<sup>th</sup> September 2020.
- Completed Faculty Development Program on ICT Tools in Teaching Chemistry organized by the Department of Chemistry and Teresian Teaching Learning Centre from 2<sup>nd</sup> to 6<sup>th</sup> September 2020.
- Participated in International webinar on Atomically Precise Nobel Metal Clusters organized by St. Albert's College on 26<sup>th</sup> August 2020.
- Participated in Nobel Laureate Lecture-I on Cryo Electron Microscopy of Biological Molecules by Prof. Joachim Frank organized by M.A College, Kothamangalam on 11<sup>th</sup> August 2020.
- Completed course 'Nanotechnology: A maker's course' organized by Duke University, North Carolina State University and the University of North Carolina at Chapel Hill offered through Coursera.
- Passed National level Online e-Quiz on General Chemistry conducted by the Department of Chemistry, Government Degree College, Mancherial on 18<sup>th</sup> July, 2020.
- Participated in the webinar series organized by the Department of Chemistry, UC College, Aluva on Nobel Laureate materials-a great History in Science on 28<sup>th</sup> May, 2020.
- Participated in the lecture 'Doing Science with roots intact' by Padma Shri. Prof. T Pradeep, IIT Madras organized by Research and PG Department of Chemistry and IQAC, St. Thomas College, Thrissur on 25<sup>th</sup> May 2020.
- Participated in the International Webinar 'Managing your Finances and Investments during Covid-19' on 25<sup>th</sup> May 2020 organised by the Department of Commerce(SF), St. Teresa's College, Ernakulam.

- Successfully completed one week STTP on Advanced research Methodology from 11 May to 15 May 2020 organized by REST Society for Research International(RSRI),Tamil Nadu.
- Participated in National Webinar on Covid-19 and Commerce organized by the Department of Commerce(SF),St.Teresa's College,Ernakulam on 9<sup>th</sup> May 2020.
- Completed 'The Covid 19 awareness quiz' organized by St.Teresa's College in association with NSS and UBA in May 2020.
- Participated in National Webinar on Academic Quality Enhancement through outcome based education organized by IQAC, St. Teresa's College as part of UGC Paramarsh Scheme from 7<sup>th</sup> to 12<sup>th</sup> May 2020.
- Coordinator of the following webinars organized by the Department of Chemistry and Centre for Research:
  - 'Emphasizing health education on covid-19'on 11<sup>th</sup> May, 2020 by Dr. Bibin Jose ,MBBS,MD(chest) , Department of Pulmonology, Mary Queens Mission Hospital, Kanjirapally .
  - National webinar on the topic 'smart materials and coatings' taken by Dr.T. P. D. RAJAN, Principal Scientist, MSTD, CSIR-NIIST, Trivandrumon 21<sup>st</sup> May 2020.
  - 'Orientation for CSIR-UGC-NET Examination in Physical and Inorganic Chemistry' by Dr. Anu George, Assistant Professor, Department of Chemistry, Bharata Matha College, Thrikkakara on 28<sup>st</sup> May 2020.
  - "Plenty of room at the bottom": nanoworld and recent advances on 30<sup>th</sup> May 2020 by Dr. Jatish Kumar, Assistant Professor, Department of Chemistry ,Indian Institute of Science Education and Research (IISER) Tirupati.
  - State Webinar sponsored by DBT STAR on the topic 'Fight against covid-19: the power of scientific knowledge' on 30<sup>th</sup> May 2020 by Dr. Ani Deepthi,Assistant Professor,Department of Chemistry,University of Kerala .
  - National Webinar on Laboratory Safety Practises by Dr.Bhaskar B Idage,Former Scientist,CSIR National Lab, Pune on 4<sup>th</sup> July 2020.
  - Webinar on Orientation on Higher Studies in Chemistry by Dr. P. Ananthapadmanabhan, Retired Associate Professor, Maharaja's College,Ernakulam.
- Coordinator of Dr.Sr.Bertille Endowment lecture on Fundamentals of Spectroscopy by Mr.Jerly K.J organized by Department of Chemistry and Centre for Research of St.Teresa's College(Autonomous), Ernakulam on 13<sup>th</sup> September,2019.
- Coordinator of three day certificate course on 'Green and Safe Approach to Microscale Volumetric Analysis' organized by the Department of Chemistry and Centre for Research on 29<sup>th</sup> June,1-2 July 2019.
- Coordinator of Dr.(Sr.) Bertille endowment lecture on 'Computational Chemistry' by Dr. Cyriac Mathew organized by Department of Chemistry and Centre for Research of St.Teresa's College(Autonomous), Ernakulam on February 6,2019.

- Participated in the Albertian Knowledge Summit-An International Conference on Multidisciplinary Research organized by St. Albert's College (Autonomous), Ernakulam on 4<sup>th</sup> and 5<sup>th</sup> January 2019.
- Navadarshan incharge ,Scholar Support Program(SSP) coordinator, library and book purchase incharge of the Department of Chemistry and Centre for Research during the academic year 2018-2019.
- Organizing committee member of the following programs organised by the Department of Chemistry and Centre for Research of St.Teresa's College, Ernakulam-student enrichment programme-'Career prospects of Women in Industry', workshop on microscale volumetric analysis, Higher education and research at IISER-outreach program, Faculty enrichment programme-Teresian Ecofriendly Recycling and Reusing Activities (TERRA),Enrichment program-Total quality management, State level workshop for laboratory staff-FAST 2018,Erudite lecture program by Prof.Toshiaki Enoki, Women achievers in Science 2019,Dr.Sr.Bertille endowment lecture on Spectroscopy, thermodynamics of living cells.
- Qualified for lecturership in the Joint CSIR-UGC NET exam held on 17th December,2017 with an all India rank of 51.
- Qualified Graduate Aptitude Test in Engineering-GATE 2018 in Chemistry with an all India rank of 3678 out of 19500 candidates who appeared in the paper.
- Dr.(Sr) Bertille Memorial Prize for the outstanding student of second year P.G Chemistry from St.Teresa's College(Autonomous),Ernakulam for the academic year 2016-2017.
- Participated in a two day National seminar on 'Smart materials-Theory and Applications' held at Post Graduate and Research Department of Chemistry, Maharaja's College, Ernakulam on 8,9 December,2016
- Participated in the student start-up exhibition held in connection with BIIC held on 15,16 December,2016 at Mahatma Gandhi University.
- Certificate of participation in the Prof. V.A Joseph Endowment seminar on 'Spectroscopy' jointly organized by the Department of Chemistry, Sacred Heart College, Thevara and MG University, Kottayam on March 27,2015.
- Participated in the 16<sup>th</sup> Professor P.J Joseph Memorial Inter Collegiate Science Quiz organized by Department of Chemistry, Sacred Heart College(Autonomous), Thevara on 27 January,2016.
- 'Outstanding student award for selfless service' for Teresian Rural Outreach Program(TROP) from St.Teresa's College,Ernakulam in the academic year 2014-2015.
- Professor Annakutty Prize for the 'Best all rounder' from BSc degree class in Chemistry for excellence in curricular and co-curricular fields from St.Teresa's College in the academic year 2014-2015.
- Third prize in debate competition on 'Revolution in technology and existence of Ozone' held at St.Michael'sCollege,Cherthala on 8 October,2014.
- Passed 'Certificate in Business studies' from St.Teresa's College, Ernakulam in March 2013.

**PERSONAL DETAILS:**

DATE OF BIRTH:23/07/1994

AGE: 26

FATHER:N.P Joseph

OCCUPATION:Business

MOTHER:Reena Joseph

OCCUPATION:Home Maker

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