

## CURRICULUM VITAE

### **Personal Information**

**Name:** Tayyaba Muhammad Akram  
**Father's Name:** Muhammad Akram Bajwa  
**Date of Birth:** May 17, 1983  
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**Domicile:** Punjab  
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### **Current Status**

Working as Lecturer of Chemistry Education at Institute of Education and Research, University of the Punjab, Lahore, Pakistan from March 15, 2010.

### **Academic Qualification**

Level	Subjects	Board/University	Year	Grade
M.S.Ed	Chemistry, Biology	University of the Punjab, Lahore	2007	A
M.Sc.	Analytical Chemistry	Lahore College for Women University	2005	A <sup>+</sup>
B.Sc	Chemistry, Bot, Zoology	Lahore College for Women University	2003	B <sup>+</sup>
F.Sc	Pre-Medical	Federal Board, Islamabad	2001	B
Matric	Science	Federal Board, Islamabad	1999	A

### **Teaching Experience**

Institute	Level/Class	Subjects	Duration
Punjab University Laboratory High School	10 <sup>th</sup> , 9 <sup>th</sup> & 7 <sup>th</sup>	Chemistry, Biology, General science	November-2007 to March-2008
Comprehensive High School For Girls (Lahore)	10 <sup>th</sup> , 9 <sup>th</sup> & 8 <sup>th</sup>	Chemistry, Biology, General science	January-2007 to March-2007

## Field Experience

Institute	Designation	Place of Posting	Responsibilities	Duration
PSCIR	Research Student	Environment Department. PCSIR, Lahore	Analysis of waste sludge samples of electroplating industry	January-2004 to October-04

## Academic Achievements

- 3<sup>rd</sup> Position in Master of Science Education, Awarded with merit certificate from IER and merit certificate from University of the Punjab (2005-2007).
- 3<sup>rd</sup> Position in F.Sc, Awarded with a Brass Medal. (2001)
- 3<sup>rd</sup> Position in Matric, Awarded with a Brass Medal. (1999)

## Research Work/ Thesis

- Effect of Physical Properties of Medium on Electrolytic Conductance and Ionic Association (2005).
- Evaluation of Metals from Waste sludge of Electroplating Industries by Analytical Technique (January-2004 to October-2004).
- Explored the views of Prospective Science Teachers (PSTs) and Prospective Science Lecturers/Prospective Scientists (PSLs/PSs) about Nature of Science (2007).

## Language Skills :

Urdu, English and Punjabi.

## Experience :

**Lecturer: Department of science Education, Institute of Education and Research, University of the punjab (15-03-2010- todate)**

Responsibilities : To teach following courses to four years Bachelor of Education and two years Master of Education degree programs.(Teaching of Chemistry, Teaching of Science, Comparative Science Education, Laboratory Techniques and Management, Environmental Education, Inorganic chemistry, Physical chemistry, Organic chemistry, Environmental chemistry AND Analytical chemistry).

## Member of Committees/Society:

1. Member of Chemical Society of Pakistan (2007- todate).
2. Member of National Academy of Young Scientists (NAYS) Pakistan (2009-Todate)
3. Member of Center of Excellence in Education, IER (2017- todate).
4. Focal person of Scholarships (HEC and PHEC) at Department of Science Education (2015-todate).

5. Advisor Bachelors of Science Education.
6. Member of organizing Committee: International Conference on Research in Education- ICORE , organized by Institute of Education and Research , University of the Punjab, Lahore-Pakistan, since 2010- todate.
7. Member of library committee (2018-todate).
8. Faculty launge incharge (2016-2018).
9. Member of students' affairs Committee (2011-2018)

#### **Awards / Souvenirs:**

1. Received souvenir for member of organizing at 7th International Conference on Research in Education-ICORE 2018, organized by Institute of Education and Research, University of the Punjab, Lahore-Pakistan held on November 19-21, 2019.
2. Received souvenir for moderator of the session at 6th International Conference on Research in Education-ICORE 2018, organized by Institute of Education and Research, University of the Punjab, Lahore-Pakistan held on November 20-22, 2018.
3. Received shield for conducting Sports at Institute of Education & Research (IER), Punjab University organized annual sports gala under slogan '*Sports for character building*' held on April 4<sup>th</sup>, 2018.
4. Received shield in Conference on "*Peace, Harmony and national unity*" organized by Punjab University College of Earth & Environmental Sciences (CEES) in collaboration with Centre for Health and Gender Equality (CHANGE) on March 22, 2018.

(in recognition of organizing and participating 3 days work shop and walk at IER on 26-28 Feb 2018, with College of Earth & Environmental Sciences (CEES) in collaboration with Centre for Health and Gender Equality (CHANGE).

#### **Publication:**

<b>Sr. No.</b>	<b>Author</b>	<b>Year</b>	<b>Title of Paper</b>	<b>Name of Publishing Journal</b>	<b>Impact Factor</b>	<b>Vol. / No.</b>
1	<b><u>Tayyaba M. Akram,</u></b> Ahmad, N., & Shaikh, I.A.	2019	<i>Characterization and optimisation of photocatalytic activity of TiO<sub>2</sub> and Ag doped TiO<sub>2</sub> by degradation of synthetic textile effluent</i>	Polish Journal of Environmental Studies	28 (4), 2571-2583	W ( <i>Impact Factor is 1.186</i> )

2	Kiran Bukhari, Nasir Ahmad, Irfan Sheikh, <b><u>Tayyaba M. Akram</u></b>	2019	<i>Effect of Different Parameters on Photocatalytic Oxidation of Slaughterhouse Wastewater by Using TiO<sub>2</sub> and Silver Doped TiO<sub>2</sub> nanoparticles</i>	Polish Journal of Environmental Studies	28(3), 1591–1600	W (Impact Factor is 1.186)
3	<b><u>Akram, M. T.</u></b> , Sami, A., Ilyas, A., Ikram, H.,	2018	<i>The Impact of Parental Enforcement, Societal Demands and Text Books Role on Students' Interest towards the subject of Chemistry</i>	International Journal for Cross-Disciplinary Subjects in Education	Infonomics Society's Indexing Citation Board (ICB). (ISSN 2042-6364)	9(3), 3454-3459
4	Ikram, H., <b><u>Akram, T.</u></b> , Manzoor, A., Aziz, F.	2017	Social Media Trends among Pakistani University Students	International Journal of Digital Society (IJDS),	Infonomics Society's Indexing Citation Board (ICB). JDS (ISSN 2040-2570)	8(4), 1331-1335
5	Rana, A. R., <b><u>Akram, M. T.</u></b> , Ilyas, A., Sami, A., Ikram, H., Sana, N., Nazir, A., Mujahid, S.	2017	Perception of Secondary School students about Learning Difficulties and Misconceptions in basic concepts of Chemistry	The Turkish Online Journal Of Educational Technology	Y <b>Indexed by</b> Education Resources Information Center - <b>ERIC</b> <b>SCOPUS - ELSEVIER</b>	TOJET, 2017, 567-574 ISSN: 2146-7242 (Special Issue for IETC Nov 2017)

6	<b><u>Akram, M. T.</u></b> , Javed, F., Majeed, S., Ikram, H., Ilyas, A., Sami, A.	2017	Exploration of the Important Five Factors of Personality Traits and Attitude of the 9th and 10th Grade Students towards the Subject of Chemistry	Literacy Information and Computer Education Journal (LICEJ)	Infonomics Society's Indexing Citation Board (ICB). LICEJ (ISSN 2040-2589)	8(3), 2701-2706
7	<b><u>Akram, M. T.</u></b> , Ijaz, A., & Ikram, H.	2017	<i>Exploring the Factors Responsible for Declining Students' Interest in Chemistry</i>	International Journal of Information and Education Technology	Y	7(2)
8	<b><u>Akram, M. T.</u></b> , Ahmad, N., & Shaikh, I.A.	2016	<i>Photocatalytic Degradation of Synthetic Textile Effluent by Modified Sol-Gel, Synthesized Mobilized and Immobilized TiO<sub>2</sub>, and Ag-doped TiO<sub>2</sub></i>	Polish Journal of Environmental Studies	W (Impact Factor is 1.120)	25, 4
9	Bushra khan, <b><u>Akram, M. T.</u></b>	2004	<i>Evaluation of Metals from Waste Sludge of Electroplating Industries by Analytical Techniques</i>	The Environment Monitor	National Journal	4 (1)

**Presented Research papers in conference (for oral presentation):**

1. Rana, A. R., Akram, M. T., Ilyas, A., Sami, A., Ikram, H., Sana, N., Nazir, A., Mujahid, S. (2017). Preception of Scecondary School students about Learning Difficulties and Misconceptions in basic concepts of Chemistry, Presented at 17th International Educational Technology Conference (IETC—2017), held at the Harvard University, USA from August 16—18, 2017, published in the conference proceedings book.
2. **Tayyaba M. Akram**, Sana Shahzad , Huda Saleem, Tabinda Arif, Sadia Maqsood, Effect of Concept Mapping on 9th grade General Science Students, Abstract published and Presented in 5th International Conference on Research in Education-ICORE 2017, organized by

Institute of Education and Research , University of the Punjab, Lahore-Pakistan held on November 21-23, 2017.

3. Huda Saleem, Asim Nazir, **Tayyaba M. Akram**, H. Mufkkera-Tul-Islam. Relationship of Science Students' Self Regulation and Fluid Intelligence at Undergraduate Level, Abstract published and paper presented in 5th International Conference on Research in Education-ICORE 2017, organized by Institute of Education and Research , University of the Punjab, Lahore-Pakistan held on November 21-23, 2017.
4. Ikram, H., Akram, M. T., Manzoor, A., Aziz, F."Perception of University Students Towards the Role of Social Networking Sites in their Academics" at the London International Conference on Education, University of Cambridge, UK December 11-14, 2017.
5. **Tayyaba Muhammad Akram**, Ayesha Ijaz, and Hamid Ikram.(2015)“*Exploring the Factors Responsible for Declining the Interest of Students in Chemistry*”, 3rd International Conference on Behaviors, Education and Psychology –(ICBEP 2015) , ICBEP 2015 held 14-15 December 2015 in New York, USA.
6. Sumaira Majeed, Fatima Javeed, **Tayyaba Muhammad Akram**, (2014).“*Effect of students' Personality Traits and Attitude on Chemistry Achievement*”, Presented at 2nd International Conference on Research in Education, “Innovations in Teaching and Learning”, held at Institute of Education and Research, University of the Punjab, Lahore-PAKISTAN, 18<sup>th</sup> -20<sup>th</sup> November, 2014.
7. Anam Ilyas, Sidra Mujahid, **Tayyaba Muhammad Akram**,(2014). “*Investigation of the Relationship between Students' Learning Difficulties and Misconceptions in Chemistry*”, Presented at 2nd International Conference on Research in Education, “Innovations in Teaching and Learning”, held at Institute of Education and Research, University of the Punjab, Lahore-PAKISTAN, 18<sup>th</sup> -20<sup>th</sup> November, 2014.

#### **Virtual presented papers :**

1. **Tayyaba Muhammad Akram**, Aisha Sami, Anam Ilyas, Hamid Ikram, (2017).“*The Effect of Parental Enforcement, Society Requirements and Role of Text Book on Students' Interest towards the course of Chemistry*”, virtual presentation at “*Canada International Conference on Education- (CICE 2017)*” organized by University of Toronto Mississauga at Toronto, Canada in June 26-29, 2017.
2. **Tayyaba Muhammad Akram**, Fatima Javed, Sumaira Majeed, Hamid Ikram, Anam Ilyas, Aisha Sami (2017). “*An investigation of the important students' Personality Traits and Attitude towards the course of Chemistry*”, virtual presentation at “*Canada International*

*Conference on Education- (CICE 2017)*” organized by University of Toronto Mississauga at Toronto, Canada in June 26-29, 2017.

#### **Attended Workshops/Meetings/Resource person**

- Participated in seminar “Cancer awareness walk” organized by University of the Punjab, Lahore-Pakistan held on November 27, 2019.
- Participated in workshop VII, titled “Publishing in impact factor journals” organized by Institute of Education and Research, University of the Punjab, Lahore-Pakistan held on November 23<sup>rd</sup>, 2019.
- Participated in workshop VI, titled “Using case studies in teaching Educational Administration” organized by Institute of Education and Research, University of the Punjab, Lahore-Pakistan held on November 22<sup>nd</sup>, 2019.
- Participated in workshop V, titled “Instructional round professional development Model” organized by Institute of Education and Research, University of the Punjab, Lahore-Pakistan held on November 22<sup>nd</sup>, 2019.
- Participated in workshop IV, titled “Instrument development and validation” organized by Institute of Education and Research, University of the Punjab, Lahore-Pakistan held on November 18<sup>th</sup>, 2019.
- Participated in workshop III, titled “Planning and conducting Qualitative Research” organized by Institute of Education and Research, University of the Punjab, Lahore-Pakistan held on November 18<sup>th</sup>, 2019.
- Participated in workshop II, titled “Structural equation Modeling AMOS” organized by Institute of Education and Research, University of the Punjab, Lahore-Pakistan held on November 17<sup>th</sup>, 2019.
- Participated in workshop I, titled “Qualitative data analysis by using Nvivo” organized by Institute of Education and Research, University of the Punjab, Lahore-Pakistan held on November 16<sup>th</sup>, 2019.
- Member of organizing committee (Registration committee) at 7<sup>th</sup> International Conference on Research in Education-ICORE 2019, ) titled “Teachers Education: 21st Century Challenges” organized by Institute of Education and Research, University of the Punjab, Lahore-Pakistan held on November 19-21, 2019.
- Participated in National Conference “National Kashmir conference” held at faisal Auditorium, University of the Punjab, on Tuesday, 24<sup>th</sup> September 2019.

- Participated in Defence Day rally to pay tribute to martyrs and express solidarity with the people of Kashmir from Institute of Education and Research, Gate No 2 to Gate No 1 through main campus road (Khyaban e Jamia Punjab) Friday 6<sup>th</sup> September, 2019.
- Attended and Qualified as Sheheen Scout Leader in the Shaheen Scout Leader Training Course at STC Ghora Gali, Murree Hills, from 25<sup>th</sup> Aug 2019 to 01<sup>st</sup> Sep 2019
- Oric conference
- Participated in national seminar and round table discussion on “Teacher Education Programs: HEC & Government Policies” held at Punjab University, Institute of Education & Research organized on Tuesday 23 July, 2019.
- Participated in conference on “Kashmir freedom struggle”, organized by Punjab University in collaboration with Centre for Global & Strategic Studies (CGSS), on 7<sup>th</sup> October, 2019.
- Participated in conference on “Peace and Students’ Societies” organized by Punjab University College of Earth & Environmental Sciences (CEES) in collaboration with Center for Health and Gender Equality (CHANGE) on 25<sup>th</sup>, June, 2019.
- Member of organizing committee in Post Graduate Student Conference on “Quality of Teaching and Learning” Organized by Institute of Education and Research, University of the Punjab, Lahore-Pakistan held on June 18, 2019.
- Attended Punjab University, Alumni General Meeting (AGM) on 28th April 2019, in Law College Auditorium, Quaid-e-Azam Campus, Punjab University, Lahore.
- Member of organizing committee (Registration committee) From IER for First University of the Punjab Alumni Reunion Function held on 8<sup>th</sup> December 2018.
- Member of organizing committee (Registration committee) at 6th International Conference on Research in Education-ICORE 2018, organized by Institute of Education and Research, University of the Punjab, Lahore-Pakistan held on November 20-22, 2018.
- Member of organizing committee in Post Graduate Student Conference on “Improving Education Through Research” Organized by Institute of Education and Research, University of the Punjab, Lahore-Pakistan held on May 16, 2018.
- Attended three Day, 5<sup>th</sup> international Conference on "Drug Development- Natural & Synthetic, Current Approaches and Emerging Trends for the Development and Discovery of Drugs" by CADR, held on JUNE 28-29<sup>th</sup>, 2018 at the COMSATS Institute of Information and Technology, Abbottabad, Pakistan.
- Participated in one day Conference on “*Peace, Harmony and national unity*” organized by Punjab University College of Earth & Environmental Sciences (CEES) in collaboration with Centre for Health and Gender Equality (CHANGE) on March 22, 2018.



- Participated in two days seminar on “Countering violent extremism orientation” organized by university of the Punjab, Lahore and Centre for health and gender equality (CHANGE), from 6<sup>th</sup> -7<sup>th</sup> February 2018 at department of History, University of the Punjab.
- Member of organizing committee in 5th International Conference on Research in Education- ICORE 2017, organized by Institute of Education and Research , University of the Punjab, Lahore-Pakistan held on November 21-23, 2017.
- Attended three Day, 7<sup>th</sup> international Conference on "Environmentally Sustainable Development" ESDev 2017, held on August 26-28, 2017 at the COMSATS Institute of Information and Technology, Abbottabad, Pakistan.
- Participated in three Day international Conference on “*Current Research in Chemical and Pharmaceutical Sciences*” organized by Department of Chemistry and Department of Pharmacy, Forman Christian College University held on 18-20<sup>th</sup>, January, 2017.
- Participated in the 4th International Conference on Research in Education (ICORE 2016), organized by Institute of Education and Research , University of the Punjab, Lahore-Pakistan to be held on November 23-25, 2016.
- Hands on training workshop on “*Advanced presentation skills for MS/PhD scholars*” held at institute of Agricultural Sciences, University of the Punjab, Lahore on May 19<sup>th</sup> , 2016.
- Participated as oral presenter of research paper in 3rd International Conference on “*Behaviors, Education and Psychology –(ICBEP 2015)*” ICBEP 2015 held 14-15 December 2015 in New York, USA.
- 2<sup>nd</sup> International Conference on “*Drug Development –Natural and Synthetic*” held on 23-25, August, 2015, at the COMSATS Institute of Information and Technology, Abbottabad, Pakistan.
- Participated as a Trainee at International Conference “ Highlights of ASH in Asia” ,Organized by American Society of Hematology held in Bangkok, Thailand, 28<sup>th</sup> February-1<sup>st</sup> March, 2015
- Actively Participated and was Member of Conference Commettiee: Venue Commettiee at 2nd International Conference on Research in Education, “Innovations in Teaching and Learning”, held at Institute of Education and Research, University of the Punjab, Lahore-PAKISTAN, 18<sup>th</sup> -20<sup>th</sup> November, 2014.
- 13<sup>th</sup> International & 25<sup>th</sup> National Chemistry Conference, The Chemical Society of Pakistan-Silver Jubilee Event. “*The Vision for Emerging Sciences*”, Organized by Institute of Chemistry, University of the Punjab, Lahore, 20<sup>th</sup> Oct, 2014.

- Hosted “23<sup>rd</sup> March Pakistan Day Celebrations”, organized by students Affairs committee, Institute of Education and Research, 23<sup>rd</sup> March 2014.
- Participated as a *Resource Person* in Workshop held at Institute of Education and Research and got certificate for “ Recognition and Appreciation for Presentation in the Practice teaching Orientation Workshop” September 09-11, 2013 .
- 1<sup>st</sup> *International Conference on “Drug Development –Natural and Synthetic” held on 25-27, August, 2013, at the COMSATS Institute of Information and Technology, Abbottabad, Pakistan.*
- 3<sup>rd</sup> post graduate students conference 2013 on “Building Better Pakistan through Educational Research” organized by students Affairs committee, Institute of Education and Research held on Wednesday, March 27, 2013.
- 2<sup>nd</sup> post graduate student conference 2012 “Education in Pakistan: Trends of 21<sup>st</sup> century organized by student affaire committee, IER, (Nov 29<sup>th</sup> , 2012).
- 1 day workshop on “Impact of Higher Education in the Social adjustment of women in Islamic perspective in Pakistan”. Organized by faculty of Education, University of the Punjab”, LHR (Nov 20, 2012).
- 32<sup>nd</sup> Pakistan congress of zoology (International) held on March 6-8, 2012 in the department of Zoology of Government College University, Lahore.
- International Conference on “Engineering Sciences” held on 28-29 February 2012, at the Institute of Chemical Engineering and Technology, University of the Punjab, Lahore, Pakistan.
- 2nd one-day workshop on “Young Researchers Skill Development” , held on 7<sup>th</sup> Jan 2012, at Sheikh Zaid Islamic center, University of the Punjab, Lahore, Pakistan
- 4<sup>th</sup> Symposium on “*Engineering Sciences*” held on 1<sup>st</sup> March 2011, at Institute of Chemical Engineering and Technology, University of the Punjab.
- As a resource person attended Three days workshop of paper setter/co-ordinators on “*Quality enhancement in Question papers*”. For H.S.S. Examinations, 2011 under the supervision of HEC Department, Government of the Punjab, Resource persons. Held on 24<sup>th</sup> Dec 2010 -26<sup>th</sup> Dec 2010 organised by Chairman BISE, Lahore.
- 3<sup>rd</sup> International conference on “*Education in Pakistan: Issues, Challenges and Reforms*” from October 21-23, 2010 organized by Faculty of Education, University of the Punjab in collaboration with HEC, PEP Foundation and PARE (Oct 21-23, 2010)
- First Consultative meeting of paper Setter held on 15<sup>th</sup> July, 2010 at Lahore Board Examination Centre 49-Law;m, Irence Road, Lahore.

- 4 weeks workshop of professional competency enhancement program for Teacher (PCEPT) organized by IER, PU, LHR in collaboration with HEC and NAHE (June 28- July 23, 2010).
- 4 week workshop on “Research Methodology”, Organised by Faculty of Institute of education and Research (May 21 – June 11 ,2010).
- Attended a National Seminar on “Accreditation: its need and prospects for Pakistan” Held at Institute of Education and Research ,University of the Punjab, Lahore (May 29th, 2010).
- Three days 30<sup>th</sup> Pakistan Congress of Zoology (International) “ International Confrence on zoology” Held at Agriculture University Fsailabad (March 2-4, 2010).
- Participated in 59<sup>th</sup> IEC Meeting & 20<sup>th</sup> Congress of ICID, Lahore, Pakistan (October 13-18, 2008).
- Workshop on “Chemistry for the Development of Health, Industry and Environment” Organized by Institute of Chemistry, University of the Punjab, Lahore (February 25-27, 2008)
- A National Workshop on “The Changing Role of Teachers in the Era of Globalization” Organized by Institute of Education and Research, University of the Punjab with the collaborations of HEC and CIDA (April 16-17, 2007).
- Workshop on “School Management and Establishment” Organized by Educational Welfare Association for Private Institutions. (May 11, 2003).

#### **Research Supervised at Master’s Level:**

- Research thesis Supervised 88

#### **University Research project completed :**

- University Research project completed 01

#### **Attended Courses**

- Computer Course in Graphic Designing from Computer Science Department, Lahore College for Women University. (June 18 to April 16, 2003)
- Cooking Course from House Wife Institute, Shadman Colony, Lahore. (June, 2003).

#### **Extra-curricular Achievements**

- Active member of Students Affair committee at IER in conducting sports, Mushaira, National days programmes (2015-todate)
- Best Performance as a Mess Committee Member from 2005-2006.
- Captain of Fatima Jinnah House at College Level during the years 2000-2001
- Remained best Debater and Compare throughout school and college level during 1989-2001
- 7<sup>th</sup> Position in all Gulf Countries Essay Writing Competition (June 9, 1999)

- 2<sup>nd</sup> Position in Inter School Debate Competition held in Embassy School Jeddah, Saudi Arabia (November 30, 1994)

### **Technical Skills**

- Command on research tools
- Microsoft Office.
- SPSS, NVIVO and Amos.
- Drawing, sketching and Painting (glass, fabric and poster).
- Different Handicrafts, Work with low-cost material.
- Usage of Internet.
- Fundamental of Computer Concepts.
- Good Linguistic Skills of English and Urdu.