



Curriculum Vitae



Dr. Sweta Ankitkumar Patel M.Phil., PhD (Statistics)

Work Address:

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Current Position:

September 2018-Onwards – Biostatistician | Business Development at Statiza Statistical Services, Ahmedabad, Gujarat, India

Previous positions:

2007- 2017 –Research Assistant at Department of Biostatistics, B. V. Patel PERD Centre, Ahmedabad, Gujarat, India.

2007-2014 – Adjunct faculty at National Institute of Pharmaceutical Education & Research (NIPER) Ahmedabad, Gujarat, India

2005-2007 –Visiting faculty at St. Xavier’s College, Ahmedabad, Gujarat, India

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Education:

2007-2014: Doctorate of Philosophy (PhD in Statistics) – “Applied approach to some Multivariate Techniques” Gujarat University, Ahmedabad.

2004-2006: Master of Philosophy (M.Phil. in Statistics) – “Application of Discriminant analysis.” Gujarat University, Ahmedabad.

2002-2004: Master of Science (M.Sc. in Statistics) Gujarat University, Ahmedabad.

1999-2002: Bachelor of Science (B.Sc. in Statistics) Gujarat University, Ahmedabad.

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Work Profile:

A Biostatistician and Business Development working with Design of pharmacokinetic & pharmacodynamics (BA/BE) studies involving statistical data analysis, pharmacovigilance studies, stability studies, in-vitro studies computing methods for observational studies, sample size calculation, casual inference, data management, report writing of bioequivalence bioavailability studies, and clinical epidemiology studies analysis, cardiology, neurological studies, pre-clinical data sets, case-control studies, hospital based studies and analysis. Exposure of Phase I to IV Clinical Trial, DNA expression data, Quality by Design (QbD) Analysis.



Applied features of multivariate techniques like Multivariate Analysis of Variance (MANOVA), Principal Component Analysis (PCA), Discriminant Analysis (DA), and Factor Analysis (FA), Time Series & Forecasting, Predictive Modelling.

Biostatistical analysis of Whole Human Genome Sequencing data dealing with the health profile of four human volunteers from India.

Certifies Base SAS, Macro, SQL programming. Exposure in Predictive Modelling with SAS.

Provides statistical training to statistician, non-statistician, students, working in clinical research, formulation development, project management, practicing doctors, employees, industry.

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Academic Experience: Involved in the developing and teaching Biostatistics course at National Institute of Pharmaceutical Education & Research (NIPER) Ahmedabad, Gujarat, India
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Publications:

Suhani Almal, Sungwon Jeon, Milee Agarwal, **Sweta Patel**, Shivangi Patel, Youngjune Bhak, JeHoon Jun, Jong Bhak, Harish Padh. Sequencing and Analysis of the whole genome of Indian Gujarat male. *Genomics*. March 2018.

Sweta Patel, Chetna Bhavsar. "Applied Statistics with Normal vs. Purified Data of Ahmedabad City in Gujarat, India. *Indian Journal of Applied research*. 3(4): 666-669 (2013). (IF- 0.11)

Sweta Patel, Chetna Bhavsar. "Water Physicochemical Analysis with Factor Analysis and Cluster Analysis of Ahmedabad city." *International Journal of Statistika and Matematika*. 6(1): 01-13 (2013).

Sweta Patel, Harish Padh, Chetna Bhavsar. "MANOVA over ANOVA", A better objective in Bioequivalence study. *International Journal of Pharmaceutical Sciences and Research*. 4(5): 1874-1881. (2013). (IF- 1.79)

Sweta Patel, Chetna Bhavsar. "Analysis of Pharmacokinetic data by Wilk's Lambda (An important tool for MANOVA)." *International Journal of Pharmaceutical Science and Invention*. 2(1): 36-44 (2013). (IF- 1.695)

Dhaneshwar Shep, Rakesh Ojha, Rajeshwari Rathod, **Sweta Patel**, Manish Nivsarkar, Sanjay Maroo and Harish Padh. "Bioequivalence study of Two Oral Formulations of Metamizole 500mg in Healthy Volunteers". *International Journal of Pharmaceutical Sciences and Research*. 3(6): 1749-1752 (2012). (IF- 1.79)

Dhaneshwar Shep, Ashwini Ojha, **Sweta Patel**, Manish Nivsarkar, Vijaya Jaiswal, Harish Padh. "Bioequivalence and Pharmacokinetic evaluation of two Formulations of Fenofibrate 145mg in Healthy Indian Subjects. *Journal of Pharmaceutical and Biomedical Sciences*. (JPBMS), 7(7):1-5 (2011). (IF- 2.14)

Dhaneshwar Shep, Ashwini Ojha, **Sweta Patel**, Manish Nivsarkar, Vijaya Jaiswal, Harish Padh. "Comparative Bioequivalence study of a new formulation of Injection of 75 mg Diclofenac Sodium in 1 ml with the conventional injection of 75 mg Diclofenac Sodium given in 3 ml volume." *Current Clinical Pharmacology*. 6(1): 26-29 (2011). (IF- 0.70)

Dhaneshwar Shep, Ashwini Ojha, **Sweta Patel**, Manish Nivsarkar, Vijaya Jaiswal, Harish Padh. "Pharmacokinetic profile of an intradeltoid diclofenac injection in obese Indian volunteers." *Journal of Pain Research*. 3: 235-240 (2010) (IF- 2.363)



Daneshwar Shep, Ashwini Ojha, **Sweta Patel**, Rajeshwari Rathod, Manish Nivsarkar, Vijaya Jaiswal, Harish Padh. "Bioequivalence and Pharmacokinetic Evaluation of Two Formulations of Paracetamol ER 650 mg: A Single Dose Randomized two periods Crossover Comparison in Healthy Indian Adult Volunteers." *International Journal of Current pharmaceutical research*. 2(4): 28-31 (2010). (IF- 4.510)

Sweta Patel, Chetna Bhavsar. "The use of ANOVA (Statistical Tool) in pharmaceutical Industry." *Vidya Journal*, 5(1): 44-49 (2010).

Ashwini Ojha, Dhaneshwar Shep, Manish Nivsarkar, **Sweta Patel**, Vijaya Jaiswal & Harish Padh. "Pharmacokinetic profile of a new formulation of injection diclofenac designed for intradeltoid use." *Expert Opinion on Pharmacotherapy*. 10(4):1-6 (2009). (IF- 3.534)

Book:

Editorial assistance in "*Nanotechnology: Present Status and Future Prospects in Developing Countries*" edited by Harish Padh, Bernard Odhiambo Aduda, Ajith De Alwis by Centre for Science and Technology of the Non-Aligned and other Developing Countries (NAM S&T Centre), Daya Publishing House, Delhi, 2011.

Invited Lectures:

Speaker at workshop in "Statistical Computation" at K. B. Institute of Pharmaceutical Education & Research on November 24th, 2018.

Speaker at National Workshop on "Methods for Statistical Data Analysis of Experimental Data." At B. V. Patel PERD Centre on February 2nd-3rd, 2017

"Biostatistics in Pharmaceutical Industries" at S. M. Patel College, GLS, Ahmedabad, Gujarat, India on July 25th, 2011.

"Multivariate Analysis Techniques" & "Measurement & scaling Techniques" at Academic Staff College (U.G.C. sponsored programme) Vallabh Vidyanagar, Anand, Gujarat, India for 2nd Refresher Course in Research Methodology in Humanities & Social Science on November 19th, 2010.

Organized workshop:

Organized and coordinated a National Workshop on "Statistical Methods for Clinical Research." At Statiza Statistical Service on October 26th, 2018.

Organized and coordinated a National Workshop on "Methods for Statistical Data Analysis of Experimental Data." At B. V. Patel PERD Centre on February 2nd-3rd, 2017

Presentations:

Oral presentation on "Time series and Forecasting in Air quality data of Ahmedabad city in Gujarat, India: A Time series study." At Australian Statistical Conference 2016, Canberra, Australia during December 5-9th, 2016.

Oral presentation on "MANOVA over ANOVA a better objective in Bioequivalence study" at the 8th International Symposium of Statistics organized by IGS 2012, Anadolu University at Eskisehir, Turkey during October 11-13th, 2012.



Poster presentation on “MANOVA analyzing better significance difference” at the International Conference on Applied Mathematical Sciences at Department of Mathematics and Statistics, Gujarat University, Ahmedabad-380009, Gujarat, India on December 16-18th, 2011.

Oral presentation on “MANOVA of Statistical moments in Biopharmaceutical Studies” at the “XXV – Gujarat Science Congress 2011” held at Gujarat Science city, Ahmedabad, Gujarat on February 26-27th, 2011.

Oral presentation on “The use of ANOVA in Pharmaceutical Industry” at International Conference on “Global Issues in Business & Technology” July 31 – August 1, 2008, organized by National Institute of Financial Management (NIFM) at Faridabad, Delhi, India in collaboration with University of Maryland, USA & Modern Technology & Management Institute Inc., USA.

Oral presentation on “ANOVA – A valuable tool in clinical trials” at National conference on Recent Statistical Techniques in Bio-Statistics, Management Science and Related Areas organized by M.S. University, Baroda on February 14 -16th, 2008.

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Conferences/symposia /Workshops Attended

Attended National Conference on New Paradigm in Pharma Innovation Pharma Labotica on September 22, 2016 at Gujarat University Convention Center, Ahmedabad, Gujarat, India.

National seminar on “Ayurveda: The future of Healthcare.” At PharmaTech 2016 KNS media jointly organized with B. V. Patel PERD Centre on August 22, 2016 at Gujarat University Convention Center, Ahmedabad, Gujarat, India.

The 13th International Congress of Human Genetics ICHG 2016 at Kyoto International Conference Center, Japan 31st March – 7th April 2016.

National Conference on “Herbal Drug Research: Opportunities and Challenges”. November 5-7, 2014 at B.V. Patel PERD Centre, Ahmedabad, Gujarat, India.

National Conference on “Emerging Trends in Applied Statistics”. 31st March 2012 jointly organized by Gujarat Statistical Association and H L College of Commerce.

UGC sponsored 26th GSA National Level Conference on “Recent Application in Statistics” 26th March 2011, Department of Statistics, Saurashtra University, Rajkot.

6th International Symposium on “Innovations in Pharmaceutical Sciences & Technology” from November 26-28, 2010 at B. V. Patel PERD Centre, Ahmedabad, Gujarat, India.

Workshop on “In vitro-in vivo correlation (IVIVC), biowaivers & Statistical aspects of Bioequivalence in Drug Product Development” organized on 27th-29th January 2012 at Pharma Edge Centre, Mumbai, India.

Workshop on “Evaluation of Basic Pharmacokinetic Parameters & Confidence Intervals from Data Obtained During Bioequivalence Study Using Excel Worksheet.” From Pharma Edge Centre at 9th& 10th October 2010 at Grand Bhagavati Hotel, Ahmedabad.

Workshop on “National Workshop on the Impact of Statistical Techniques in Pharmaceutical Research” (January 5 – 9, 2009) at Ramanbhai Patel college of Pharmacy & Charotar Institute of Computer Application Education Campus at Changa, Anand, Gujarat Supported by Gujarat Council on Science and Technology.

One day Seminar on the occasion of celebration of “Statistics Day” in the remembrance of Late Prof. P. C. Mahalanobis, on “Role of Statistics in Socio-Economic Planning” jointly organized by Directorate of Economics & Statistics, Govt. Of Gujarat, Gandhinagar & Department of Statistics, Gujarat University, Ahmedabad on 29th June 2007.



UGC Sponsored National Level Seminar on “Recent Trends in Bio-Medical Statistics” organized by Department of Statistics, Gujarat University, Ahmedabad during February 24-25, 2007.

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Grants & Scholarship:

International Travel Grant from Department of Science & Technology (DST), Government of India to present PhD research at Turkey in October 2012.

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Awards & Honor:

First prize for poster presentation on “Applied side of MANOVA in pharmaceutical Industry.” Statistics Department, University School of Science, Gujarat University. (21st March 2009)

First prize in Science Excellence – 2009 State level Oral paper presentation competition in science subjects on topic “Some applied approach to Multivariate Analysis of Variance (MANOVA)” at Botany Department, University School of Science, Gujarat University (10th January 2009).

Second prize in Science Excellence – 2008 State level Oral paper presentation competition in science subjects on topic “Statistics – In pharmaceutical company.” at Botany Department, University School of Science, Gujarat University (5th January 2008).

Vidya Samaj awarded as “Shri V. R. Rudani prize” for securing first rank among Statistics students of K. K. Shah Jarodwala Maninagar Science College at Third B.Sc., Gujarat University Examination - April 2002.

Second in M.Phil exam (2006) from Statistics Department, School of Science, Gujarat University, Gujarat, India.

First from K.K. Shah Jarodhwala Science College, Ahmedabad, Gujarat, India in final B.Sc. exam in 2002.

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Training Acquired:

“One Day Training Program on Good Clinical Practices” at B. V. Patel PERD Centre, Ahmedabad on 13th January 2011 by Dr. Gauri Patel, Senior Research Scientist, BA Research India Limited.

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Invited Expert Member:

Invited as an expert member for the selection committee to interview and recommended a candidate for the post of Statistician at 19th December 2011 at Vice-chancellor’s office, Sardar Patel University, Vallabh Vidyanagar – 388120, Gujarat, India.

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NCBI Submission:

Significant contribution & successful submission of novel variants (SNPs and INDELs; variants not larger than 50 nt) to the NCBI database (Human Build 146; http://www.ncbi.nlm.nih.gov/SNP/snp_viewTable.cgi?handle=PADH-LAB_SPU).

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Membership: Lifetime member of Gujarat Statistical Association.