Praful A. Patel

Name: Praful A. Patel

Address: Opp. Paras Bunglows,
Nr. Akruti Park, 80 foot Road,
ANAND – 388 001

Designation: Professor since 2002

Professor & Head: March 2012 to June 2016

Head (In-charge): July 2019 to July 2020

Department: Statistics

Retirement Year: July, 2022

Contact Nos. (O) 02692-226871/226881
M-9904494028

E-mail: (i) pa_patel@spuvvn.edu (ii) patelpraful_a@yahoo.co.in

Academic Qualification: M. Sc, M. Phil, Ph. D. (Sardar Patel University)

Teaching Experience: 36 years

Areas of Interest: Theory of Sample Surveys, Survey Sampling Inference, Statistical Inference, Multivariate Analysis, Financial Statistics

Specialization: Sampling Theory, Survey Sampling Inference

Subject Taught: Distribution Theory, Theory of Sample Surveys, Survey Sampling Inference, Theory of Estimation, Testing of hypotheses, Linear Models and Regression Analysis, Multivariate Analysis, Computer Oriented Statistical Methods, Econometrics. Design of Experiments

Research Awards Received: 03

Awarded 'Hari Ohm Ashram Prerit Bhaikaka Inter-University Smarak Trust' awards for the best paper in the subject Statistics three times.

Sr. No.	Title of the paper	For the year
1	Uniformly admissible estimator for the finite population variance	1995-96
2	Asymptotic Properties of a generalized regression type predict of a finite population variance in probability sampling	1997-98
3	Design-based Horvitz-Thompson variance estimation: π-weighted ratio type estimator	2006-07

Number of Ph.D Guided: 05

Sr. No.	Student Name	Registration No.	Date of Registration	Title of Thesis	Completed
1	Raju Digamber Chaudhari	D-E/11/3637	29/09/1998	Variance estimation of Horvitz-Thompson and GREG estimator of the finite populations	2003
2	Rina M. Shah	D-E/11/964 Re-registration D-E/10/4650	18/05/2006	Estimation of non-linear parameters and variance estimation of non-linear estimators based upon stratified sample from finite population.	2012
3	Jigna Suryakant Patel	D-E/11/8698 Re-registration D-E/10/4823	05/03/2007 30/10/2007	Estimation of variance of various estimates of the finite population mean for the Midzuno-Sen sampling scheme.	2010
4	Shraddha C. Bhatt	D/E/11/3807	14-09-2011	On estimation of finite population parameter under PPS sampling	2017
5	Fagun H. Shah	D/E/--/1459	04/10/2014	Some Imporved Ratio And Rergression Type estimators In Two-Phase Sampling In Presence Of Two Auxiliary Variables	2019

Published Articles

1. Shah, D. N. & Patel, P. A. (1994). Optimum estimation for a finite population variance under certain superpopulation models, Journal of the Indian Statistics Association, 32(1), 21-28.

2. Shah, D. N. & Patel, P. A. (1994-95). Uniformly minimum variance unbiased estimation for finite population variance, Gujarat Statistics Review, 21 & 22, 17-24.
3. Shah, D. N. & Patel, P. A. (1994). Estimation of finite population variance, Prajna (Journal of Sardar Patel University) 4, 93-100.
4. Shah, D. N. & Patel, P. A. (1995). Uniformly admissible estimator for the finite population variance, Journal of the Indian Statistical Association, 33(1), 31-36.
5. Shah, S. M., Shah, D. N. & Patel, P. A. (1995). Improving Liu's estimator of a finite population variance, Prajna (Journal of Sardar Patel University), 5, 89-94.
6. Shah, D. N. & Patel, P. A. (1996). Asymptotic Properties of a generalized regression type predict of a finite population variance in probability sampling, Canadian Journal of Statistics, vol. 24(3), 373-384.
7. Patel, P. A.(1998). Admissible Bayes predictor of finite population total, Gujarat Statistical Review, 25(1-2), 9-16.
8. Patel, P. A & Shah, D. N. (1999). Model-based estimation for a finite population variance, Journal of Indian Statistical Association, 37(1), 27-35, 1999.
9. Patel, P. A & Chaudhari, R.D. (2003). Estimation of a finite population variance in the presence of auxiliary information, Statistics in Transition, 6(4), 533-542.
10. Patel, P. A & Chaudhari, R.D. (2005). On Estimating Horvitz-Thompson Variance from Survey Data using Auxiliary Information, Gujarat Statistics Review, Vol.31(2004) & Vol.32(2005) Nos.1-2, 63-74.
11. Patel, P. A & Chaudhari, R.D. Horvitz-Thompson variance estimation when auxiliary information is available, J. Agri. Soc. Stat, Vol.59(3), 199 – 208.
12. Patel, P. A & Chaudhari, R.D. (2006). Design-based Horvitz-Thompson variance estimation: π-weighted ratio type estimator, Statistics in Transition, 7(6), 1277-1293.
13. Patel, P. A & Chaudhari, R.D. (2008). Model -based Variance estimation under unequal probability sampling, Metrika 67, 171-187.
14. Jigna Patel & P. A. Patel (2008). A Monte Carlo comparison of some estimators of finite population Total under Midzuno sampling, Journal of the Indian Statistical Association, 46, 2, 141-153.

15. P. A. Patel & Rina Shah, (2009). A Monte Carlo comparison of some suggested estimators of coefficient of variation in finite population, Journal of Statistics Sciences, 1 (2), 137-148.
16. Patel, P. A & Chaudhari, R.D. (2009-10). Estimation of variance of the regression estimator, GSR, Vol. 36, 37, 3 – 18.
17. P. A. Patel & Jigna S. Patel (2010) A Monte Carlo comparison of some variance estimators of Horvitz- Thompson estimator, J. Statistical Computing and Simulation, 80, 5, 489-502.
18. Jigna S. Patel and P. A. Patel, (2010). Comparison of some variance estimators of the ratio estimator in presence of two auxiliary variables, Interstat.
19. Jigna S. Patel and P. A. Patel, (2010). On Non-negative and Improved variance estimation for ratio estimator under Midzuno-Sen sampling scheme, Statistics in Transition-new series, 10(3), 371-385.
20. Patel P. A. & Shah Rina, (2011). A system of estimators for estimating distribution function of a finite population under unequal probability sampling, "Journal of Statistics sciences", 3 (1), 79 – 88.
21. Patel, P. A & Chaudhari, R.D. (2011). On variance estimation for the GREG Estimator, PRAÑÄ –Journal of Pure and Applied Sciences, 19, 97-99.
22. Patel P. A. & Patel Jigna, (2012). Model-Assisted Nonnegative Variance Estimator of the Ratio Estimator under the Midzuno-Sen Sampling Scheme, Pakistan Journal of Statistics and Operation Research Pak.j.stat.oper.res. Vol. VIII (1), 55-64.
23. Patel P. A. & Shah Rina, (2012). Generalized ratio-type estimator of the coefficient of variation of a finite population, Int Jr. of Mathematics Sciences & Applications Vol. 2, No. 3,
24. Patel P. A. & Shah Rina, (2012). Estimation of the finite population coefficient of variation in presence of two auxiliary variables, "Journal of Statistics sciences", 4 (1), 55 –63.
25. Shah, Rina and Patel, P. A. (2016). Estimation of general non-linear parameter using auxiliary information at the estimation stage, Research Matrix, 16 (7), 84-94 (ISSN 2321 7073)
26. Patel P. A. and Shraddha Bhatt (2016). A Model-based Estimation of Finite population Variance under PPS Sampling, Imperial journal of interdisciplinary (IJIR), Vol. l-2, Issue-4, 2016, 1078-84 (ISSN-2454-1362)

27. Patel P. A. and Shraddha Bhatt (2016). Admissible Estimation of a Finite Population Total under PPS Sampling, Research Journal of Mathematical and Statistical Sciences, Vol. 4 (8), 10-15 (E-ISSN 2320-6047)

28. Patel P. A. and Shraddha Bhatt (2016). Estimation of finite population total under PPS sampling in presence of extra auxiliary information. International Journal of Statistics and Analysis, (ISSN 2248-9959) Vol. 6 (1), 9-16.

29. Patel P. A. and Shraddha Bhatt (2017). On efficiency of Midzuno-Sen strategy under two-phase sampling, International Journal of Statistics and Analysis, Vol. 7 (1), 19-26.

30. Patel P. A. (2017). Model-assisted Variance Estimator for the GREG Estimator, Journal of Mathematics and Statistical Science, Vol. 4 (3), 99 - 107 (ISSN 2411-2518, USA)

31. Patel, P. A. and Shah, F. H. (2018). Regression-type Estimators Based on Two Auxiliary Variables of a Finite Population Mean in Two-phase Sampling. International Journal of Scientific Research in Mathematical and Statistical Sciences, 5(5), 144-152.

32. Patel, P. A. and Shah, F. H. (2018). Two-phase Ratio-type Estimator of a Finite Population Mean. International Journal of Scientific Research in Mathematical and Statistical Sciences, 5(5), 199-203.

33. Patel, P. A. and Shah, F. H. (2018). A class of estimators of a general parameter of a finite population with auxiliary information on two variables, International Journal of Statistics and Analysis, Vol 8(1), 1-7.

34. Patel P. A. and Shah F.H. (2019). A New Class of Ratio-type Estimators of the Finite Population Mean using Two Auxiliary Variables in Two Phase Sampling, Journal of Advanced Research in Applied Mathematics and Statistics; 4(1):8-12.

35. Patel P. A. and Shah F.H. (2019). A System of Estimators of the Population Mean under Two-Phase Sampling in Presence of Two Auxiliary Variables. International Journal of Statistics and Mathematics, 6(2): 130-136, May

36. Patel P. A. and Shah F.H. (2019). A Class of Ratio-type Estimators under Two-Phase Sampling in the Presence of Two Auxiliary Variables, Journal of Statistical Research, 53 (1), 79-91, May

37. Shah Rina and Patel P. A (2020). Composite-Type Estimator of the Coefficient of Variation under SRSWOR, International Journal of Scientific Research in Mathematical and Statistical Sciences, 7(1), 57-63. Feb.