

CURRICULUM VITAE

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Name: LIBERO PAUL FATTI
Date of birth: 28 January 1944
Place of birth: Uxbridge, England
Citizenship: South Africa
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Home address: 48, 8th Street, Johannesburg 2193
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Present employment: Consultant in Statistics and Operations Research.
Emeritus Professor of Statistics
School of Statistics and Actuarial Science
University of the Witwatersrand
Johannesburg

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EDUCATION AND QUALIFICATIONS

Laerskool Jan Celliers, Johannesburg. 1950-1956.
St. Johns College, Johannesburg. 1957-1961 (1st Class Matric)
University of the Witwatersrand, Johannesburg. 1962- February 1967.
B.Sc. (Mathematics, Mathematical Statistics). December 1964.
B.Sc. Hons (Mathematical Statistics) 1st Class. February 1967
(Part-time study).
Imperial College, London. October 1967- September 1968
M.Sc., DIC (Statistics and Operations Research), September 1968.
University of the Witwatersrand. Ph.D. December 1979.
Title of Thesis: "The Random Effects Model in Discriminant Analysis".
Supervisor: Dr D M Hawkins.
Operations Research Society of South Africa
Tom Rozwadowski Medal Awarded in 1981 for the paper:
"Optimal smoothing of demand for industrial gas".
(British) Operational Research Society
Goodeve Medal Awarded in 1984 for the same paper.

Employment

1. Chamber of Mines Research Laboratories, Statistics Division- February 1966 to August 1967. Statistical work in the mining industry. Left to study overseas.
2. Institute for Operational Research London- October 1968 to June 1970. OR consulting work in the National Health Service, other branches of the public sector, and in industry. Left to return to South Africa.
3. Department of Applied Mathematics, University of the Witwatersrand-
Lecturer, January 1971 to August 1979
Senior Lecturer, September 1979 to July 1981
Acting Head of the Division of Statistics, September 1978 to July 1981
Lectured in Mathematical Statistics both at the undergraduate and Honours levels.
Designed the Honours programme in Operations Research and was in charge of it for four years. Extensive Statistical and Operations Research consulting for researchers within the University, especially from the Medical and Dental Schools, as well as for Industry. Research work in Statistical Discriminant Analysis. Left to join the CSIR.
4. Chief Researcher, later Senior Specialist Researcher, National Research Institute for Mathematical Sciences of the CSIR- August 1981 to December 1986. Head of the Division of Operations Research and Statistics- May 1984 to May 1986. Resigned as Head and was appointed Programme Leader in May 1986 in order to devote more time to scientific work. Basic research in Mathematical Statistics and Operations Research. Applied and consulting work in both fields.
5. Department of Statistics and Actuarial Science, University of the Witwatersrand- January 1987 to December 2001. Professor of Statistics and Head of Department. January 2002 to December 2004, Professor of Statistics in the School of Statistics and Actuarial Science, University of the Witwatersrand. Retired from the University at the end of 2004.
6. Emeritus Professor and Honorary Research Professor, School of Statistics and Actuarial Science and Dental Research Institute, University of the Witwatersrand. Consultant in Statistics and Operations Research. 2005 - present

Professional Consultancy (excluding short-term and ad hoc work):

Market Research Africa Ltd., Davsteel Ltd., Transvaal and Coal Owners Association, Shell Coal Ltd., Alex Aiken and Carter (auditors), Water Research Commission, Standard Bank of S.A. Ltd., Portland Cement Institute, S.A. Federation of Civil Engineering Contractors, Chamber of Mines Research Laboratories, Johannesburg Consolidated Investments Ltd., Unilever Ltd., Auto and General Insurance Co. Ltd., Link Airlines, FOSKOR Ltd., General Accident Insurance Co. Ltd., National Association of Pharmaceutical Wholesalers Ltd., Nedcor Bank, ABSA Bank, South African Breweries, United Cricket Board, Eskom, SASOL, Deloitte, Lightstone Risk Management, Discovery and many others. Consultant to DMSA_{cc}, a statistical consulting firm situated at Wits University. Extensive experience in forensic statistics.

Professional Societies:

Fellow of the Royal Statistical Society.

Member of the Institute for Operations research and the Management Sciences.

Fellow of the South African Statistical Association.

Hon. Secretary during 1974 and 1975.

Member of the Education Subcommittee, 1982 to 1987.

President, 1988.

Honorary member since 2005

Chairman of the Careers Committee, 1997 to 2000.

Convenor of the Judges panel for the Herbert Sichel Medal since 1997

Fellow of the Operations Research Society of South Africa.

Chairman of the Johannesburg Chapter during 1979 and 1980.

President, 1983/84.

Honorary life member since 2012

Convener for the 1984 International Conference on the OR in Resources and Requirements in Southern Africa.

Representative of the Society at IFORS X, the International Federation of Operational Research Societies' tenth triennial conference held in Washington D.C. from 6 to 10 August 1984.

Member of the Programme Committee for IFORS '87, held in Buenos Aires in August 1987.

Representative of the Society on IFORS from 1993 to 2008

Editor of ORiON, the official Journal of the Society, 1997.to 2004

Chairman of the Judges Panel for the 2005 and 2008 IFORS Prizes for OR in Development

Research Interests

Multivariate Statistical Theory.

Discriminant Analysis.

Applied Statistical Modelling.
Applied Operations Research Modelling.
Classification in Remote Sensing.
Operations Research in Banking.
Medical Statistics.

Postgraduate Supervision

Completed: 7 PhD. Theses
15 MSc. Dissertations
Current: 1 Ph.D. student

External Examining

S.A. Institute of Chartered Secretaries, UCT, U. of the North, RAU and UNISA.
Many Masters dissertations and Ph.D. theses.

Reviewing

Reviewed articles for:

Communications in Statistics
S.A. Statistical Journal
Quaestiones Mathematicae
Journal of Mammology
S.A. Journal of Photogrammetry, Remote Sensing and Cartography
OriON
Mathematical Programming
Journal of Statistical Computation and Simulation
Journal of the Operational Research Society
S.A. Institute of Mining and Metallurgy
S.A. Forestry Journal
European Journal of Operational Research
Executive Science Institute: Quality Control and Applied Statistics
Operations Research/ Management Sciences
Technometrics
Naval Research Logistics
Journal of the Royal Statistical Society
International Transactions of Operational Research
African Finance Journal
South African Actuarial Journal

Conferences

Local Conferences

Presented papers at many of the annual conferences of the South African Statistical Association and of the Operations Research Society of South Africa, as well as at conferences of allied societies.

International Conferences

Presented papers at:

- (i) The 1981 Israeli/South African OR Conference, Pretoria.
- (ii) The 1984 International Conference in Resources and Requirements in Southern Africa, Pretoria.
- (iii) South African National Contribution at IFORS X, the International Federation of Operational Research Societies' tenth triennial conference, Washington D.C., August 1984.
- (iv) The 1984 Joint Annual Meeting of the American Statistical Association and the Biometrics Society, Philadelphia, P.A.
- (v) The ORSA/TIMS Conference, Miami Beach, Florida, October 1986.
- (vi) Invited paper at IFORS '87, The International Federation of Operational Research Societies' eleventh triennial conference, Buenos Aires, August 1987.
- (vii) APCOM International Symposium, Johannesburg, 1987.
- (viii) The International Conference on Forensic Statistics, University of Edinburgh, April 1990.
- (ix) IFORS '90, The International Federation of Operational Research Societies' twelfth triennial conference, Athens, June 1990.
- (x) Invited paper at the EURO XII/TIMS XXXI International Operational Research Conference, Helsinki, June/July 1992.
- (xi) International Conference on Practical Bayesian Statistics, University of Nottingham, July 1992.
- (xii) IFORS' 93, The International Federation of Operational Research Societies' thirteenth triennial conference, Lisbon, July 1993.

- (xiii) Fifth International Meeting on Bayesian Statistics, Alicante, June 1994.
- (xiv) IFORS' 96, The International Federation of Operational Research Societies' fourteenth triennial conference, Vancouver, July 1996.
- (xv) Fourth World Meeting of the International Society for Bayesian Analysis, University of Cape Town, December 1996.
- (xvi) 13th International Conference on Multi Criteria Decision making, University of Cape Town, January 1997.
- (xvii) Joint INFORMS.ORSIS International Meeting, Tel Aviv University, June/July 1998.
- (xviii) IFORS' 99, The International Federation of Operational Research Societies' fifteenth triennial conference, Beijing, August 1999.
- (xix) TIES/SPRUCE Joint Conference on Environmental Statistics, University of Sheffield, September 2000.
- (xx) IFORS2002 The International Federation of Operational Research Societies' sixteenth triennial conference, Edinburgh, July 2002
- (xxi) ISBIS4. Fourth International Symposium on Business and Industrial Statistics, Cairns, Australia, April 2005
- (xxii) IFORS2005 The International Federation of Operational Research Societies' seventeenth triennial conference, Hawaii, July 2005. (Chair of the IFORS OR in Development prize competition)
- (xxiii) EURO XXII Conference, Prague, July 2007
- (xxiv) IFORS2008 The International Federation of Operational Research Societies' eighteenth triennial conference, Sandton, July 2008. (Chair of the IFORS OR in Development prize competition)

Administrative Experience

1. Acting head, Division of Statistics, Department of Computer Science, Applied Mathematics and Statistics, University of the Witwatersrand, 1978- 1981.
2. Project Leader for the FRD-funded project: "Investigation of the Mathematical/Statistical Bases of Classification Algorithms for Supervised and Unsupervised Classification in Remote Sensing", 1992 - 1998.
3. Head, Operations Research and Statistics Division, NRIMS, CSIR, May 1984 to May 1986.
4. Head, Department of Statistics and Actuarial Science, University of the Witwatersrand, January 1987 to December 2001.

Official Positions

Member of the Advisory Committee for the Institute for Statistical Research, Human Sciences Research Council, 1985.

Member of the Water Research Commission's Working Group on Research Needs in Water Resources and Surface Hydrology, 1985-6.

Member of Science Faculty Executive and Assistant Dean (Space Allocation), Wits, 1988-90. Chairman of the Mathematical Sciences Committee, 1992.

Member of the S.A. Certification Council, 1991-2002. Chairman of its Norms and Standards Committee and Statistics Committee, 2000-2002. Member of its Executive Committee 2000-2002. Chairman of the Statistics Working Group of its successor body, Umalusi, 2003 - 2005. Member, Assessment Standards Committee, Umalusi, 2006 - 2012.

Peer Reviewer of the Agrimetrics Institute, for the Review of the Agricultural Research Council, 1997.

Chairman of the Wits University Open Day Steering Committee, 1998-9.

External Assessor for the Academic Reviews of the Statistics & Actuarial Science Department of the University of Stellenbosch, the Statistics Department of the University of Port Elizabeth, the Business Mathematics and Informatics research focus area, University of the North-West and the School of Mathematical Sciences, University of Pretoria.

Member of the Review Panel for the Biostatistics Unit of the Medical Research Council, 2004.

Chairman of the Wits University Science Faculty's Academic Review Committee for Chemistry and Physics, 2004.

Allied Experience

Chairman, Transvaal Section of the Mountain Club of S.A., 1978 to 1980.

President of the Mountain Club of S.A., 1986 to 1995.

Leader of four mountaineering expeditions to the Patagonian Andes, and one each to Peru, Baffin Island, the Canadian Rockies and the Himalayas.

Member of the MCSA Centenary Expedition to South Georgia, Antarctica.

Founding chairman of the Magaliesberg Protection Association, 1975 to present.

Member of the Statutory Magaliesberg Management Committee, 1981 to 1994.

Member of the executive committee of the Habitat Council, 1980 to 1987. Vice-President, 1984-1987.

Founding chairman of the Society for the Conservation of Northcliff Ridge, 1987.

PUBLICATIONS- L.P. FATTI

APPLICATIONS OF STATISTICS

1. L. Ciapparelli, D.H. Retief and L.P. Fatti, "The effect of Zinc on 9,10-Dimethyl-1, 2-Benzanthracene (DMBA) induced Salivary Gland Tumours in the Albino Rat- a preliminary study". **The South African Journal of Medical Sciences**, 37 (1973), 85-90.
2. H.R. Hepburn, N.J. Berman, H.J. Jacobson and L.P. Fatti, "Trends in Arthropod Defensive Secretions, an Aquatic Predator Assay". **Oecologia** (Berl.) 12 (1973), 373-382.
3. F.H. Barbakow, E.H.M. van der Merwe, S.G. Scanes, D.H. Retief and L.P. Fatti, "An in Vivo Evaluation of an Iontophoretic Technique for Increasing the Surface Fluoride Content in Enamel". **Journal of the Dental Association of South Africa**, 28, 11, (1973), 624-629.
4. M. Appleberg, L. Gordon and L.P. Fatti, "Preoperative Pulmonary Evaluation of Surgical Patients using Vitalograph". **The British Journal of Surgery**, 61, (1974), 57-59.
5. D.H. Retief, J.C. Austin and L.P. Fatti, "Pulpal Response to Phosphoric Acid". **Journal of Oral Pathology**, 3 (1974), 114-122.
6. N.A. Epstein and L.P. Fatti, "Prostatic Carcinoma- Some Morphological Features Affecting Prognosis". **Cancer**, 37,5 (1976), 2455-2465.
7. M. Friedman, E.H.M. van der Merwe, J.I. Bischoff, L.P. Fatti and D.H. Retief, "Effect of a Sealant used in Conjunction with Topical Fluoride Application, on Fluoride Concentration in Human Tooth Enamel". **Archives of Oral Biology**, 21 (1976), 237-241.
8. E.D. Gomperts, L.P. Fatti et al. "Factors VIII and Factor VIII Related Antigen in Normal South African Blacks and a Black Carrier Group". **Thrombosis Research**, 9 (1976), 293-299.
9. J. Kieser, P. Bridges, L.P. Fatti, J.C. Austin and P.E. Cleaton-Jones, "The Effect of a Proleolytic Enzyme Mixture (Orenzyme-Forte) on Experimentally-Induced Pulpitis". **Oral Medicine, Oral Pathology and Oral Surgery**, (1976), 300-305.
10. W.W. Bloch, J.C. Austin, P.E. Cleaton-Jones, H. Wilton-Cox and L.P. Fatti, "Pulpal Response to a New Visible Light-Cured Composite Restorative Material: Fotofil". **Journal of Oral Pathology**, 6 (1977), 278-287.

11. E.H.M. van der Merwe, J.I. Bischoff, L.P. Fatti, D.H. Retief, F.H. Barbakow and M. Friedman, "Relationship between Fluoride in Enamel, DMFT Index and Fluorosis in High- and Low- Fluoride Areas in South Africa." **Community Dent. Oral Edipemiol.**, 6 (1978), 61-64.
12. P. Cleaton-Jones, R.B. Richardson, P.M. McInnes and L.P. Fatti, "Dental Caries in South African White Children Aged 1-5 Years". **Community Dent. Oral Epidemiol.**, 6 (1978), 78-81.
13. E. Vieira, P. Cleaton-Jones, J. Austin and L.P. Fatti, "Intermittent Exposure of Gravid Rats to 1% Nitrous Oxide and the Effect on Post-Natal Growth of their Offspring". **S. Afr. Med. J.**, 53 (1978), 106-108.
14. A. Volchansky, P. Cleaton-Jones and L.P. Fatti, "A 3-Year Longitudinal Study of the Position of the Gingival margin in Man". **Journal of Clinical Periodontology**, 6 (1979), 231-237.
15. Seymour Chertco and Paul Fatti, "The Relationship between Tooth Mineralisation and Early Radiographic Evident of the Ulnar Sesamoid". **The Angle Orthodontist**, 49, 4 (1979), 282-288.
16. R.W. Charlton, L.P. Fatti, et al, "Equilibration of Tracer Radio-Iron with Body Iron". **Clinical Science**, 58 (1980), 93-100.
17. L.P. Fatti, et al, "Age Determination in African Elephants". **Journal of Mammalogy**, 61, 3 (1980).
18. A. Volchansky, P. Cleaton-Jones and L.P. Fatti, "A Technique for Computer Plotting of Clinical Crown Height derived from Orthodontic Study Models". **Journal of Dentistry**, 9, 1 (1981), 150-156.
19. J. Collis, J.C.G. Slabbert, P.E. Cleaton-Jones and L.P. Fatti, "Partial Denture Teaching Programme Presented to Undergraduate Students at Dental Schools in the Republic of South Africa". **Journal of Dental Association of South Africa**, 37 (1982), 5-10.
20. H. de Villiers and L.P. Fatti, "The Antiquity of the Negro". **South African Journal of Science**, 78 (1982), 321-332.
21. H. Kotkin, L.P. Fatti, et al, "An Apparatus for measuring the Effects of Tongue Position on Mandibular Denture Retention". **Journal of the Dental Association of South Africa**, 27 (1982), 179-182.
22. R.J Mason, A.J.V. Brown, L.P. Fatti, and G.M. Beardall, "Cluster and

- Correspondence Analysis of Iron Age Faunal Assemblages from Southern, Western and Eastern Transvaal". **South African Journal of Science**, 79 (1983), 189-203.
23. P. Cleaton-Jones, J.C. Austin, L.P. Fatti, CK.F. Valcke and P.M. McInnes-Ledoux, "Pupal Response Evaluated by Two Assessment System using Nobetec as Negative and Super Syntrex as Positive Control Materials". **Oral Surg.**, (1983), 310-316.
 24. A.M. Sher, D.G. Moyes, P.E. Cleaton-Jones, B.M. Braude and L.P. Fatti, "A Comparison of Entonox and Nitrous Oxide for Inhalation Sedation in Dentistry". **Journal of the Dental Association of South Africa**, 38 (1983), 281-283.
 25. L.P. Fatti, D.M. Hawkins, R. Markham and C.D. Elphinstone, "A Statistical Evaluation of Discriminant- and Cluster Analysis Applied of Supervised and unsupervised Classification" in EDIS 83 (Proceedings of the Earth Data Information Systems Symposium, Pretoria, September 1983).
 26. N.S. Wetterhahn, P.E. Cleaton-Jones, D.G. Moyes and L.P. Fatti, "Anaesthetic Scavenger Evaluation in the Laboratory". **Journal of Anaesthesiology**, 3, (1986).
 27. L.P. Fatti, "Discriminant Analysis in Prehistoric Physical Anthropology" in Variation, Culture and Evolution in African Populations. Papers in Honour of Hertha de Villers, eds. R. Singer and J.K. Lundy. Witwatersrand University Press, (1986), 27-34.
 28. A. Volchansky, P.E. Cleaton-Jones, P.G. Wright and L.P. Fatti, "Gingival and Labial Vestibular Temperature in Young Individuals". **Journal of Dentistry**, 13 (1985), 323-330.
 29. J.F. Lownie, P.E. Cleaton-Jones, L.P. Fatti and M.A. Lownie, "Auto-transplantation of Maxillary Canine Teeth". **Int. J. Oral Maxillofac. Surg.**, 15 (1986), 282-287.
 30. John Wolfaardt, Peter Cleaton-Jones and Paul Fatti, "The Influence of Processing Variables on Dimensional Changes of Heat-Cured Poly (methyl methacrylate)". **Journal of Prosthetic Dentistry**, 55 (1986), 518-525.

31. P.F. Fuls, J.S. Galpin, L.P. Fatti, D.M. Hawkins and J.P. Hayman, "Multidimensional Response Surfaces in the Characterization, Comparison and Optimization of Membranes". *Desalination*, 61 (1987), 103-123.
32. P. Cleaton-Jones, B.D. Richardson, L.M. Screebny, L.P. Fatti and A.R. Walker, "The relationship between the intake frequency and the total consumption of sucrose among four South African ethnic groups". **Journal of Dentistry for Children**, (1987), 251-254.
33. J. Ordman, P. Cleaton-Jones, E. Mizrahi, L.P. Fatti, "Head Holder for Panoramic Dental Radiography". **The Angle Orthodontist**, 57 (1987), 322-331.
34. Volchansky, A., Cleaton-Jones, P., Smith, M., Fatti, L.P., "Diurnal mucosal temperature variations". **J. Dent. Ass. S. Afr.**, 42 (1987), 399-401.
35. J.S. Galpin, P.F. Fuls and L.P. Fatti, "A successful application of experimental design and modelling". **ChemSA**, April (1988), 94-98.
36. P. Cleaton-Jones, J.A. Hargreaves, L.P. Fatti, H.D. Chandler and E.S. Grossman, "Dental Caries Calibration for Clinical Field Surveys". **Caries Research**, 23 (1989), 195-199.
37. J. Matjeka, R. Sinwell, P. Cleaton-Jones, S. Williams, J.A. Hargreaves, L.P. Fatti and M. Docrat, "Dental Caries at Five and Twelve Years in a South African Indian Community: A longitudinal study". **International Journal of Epidemiology**, 18 (1989), 423-426.
38. W. Theron, J.C.G. Slabbert, P.E. Cleaton-Jones and L.P. Fatti, "The effect of complete dentures on head posture". **Journal of Prosthetic Dentistry**, 62 (1989), 181-184.
39. A. Chosack, P. Cleaton-Jones, J. Matjeka, P. Fatti, "Social class, parents' education and dental caries in 3- to 5- year-old children". **J. Dent. Assoc. SA**, 45 (1990), 5-7.
40. Cvek, M., Cleaton-Jones, P.E., Austin, J., Lownie, J., Kling, M. & Fatti, L.P., "Effect of topical application of doxycycline on pulp revascularisation and periodontal healing in replanted monkey incisors". **Endodontics & Dental Traumatology**, 6 (1990), 170-176.

41. Blankenstein, R., Cleaton-Jones, P.E., Luk, K.M. and Fatti, L.P., "The onset of eruption of the permanent dentition amongst South African black children". **Archives of Oral Biology**, 6 (1990), 157-169.
42. Cvek, M., Cleaton-Jones, P., Austin, J., Lownie, J. Kling, M. & Fatti, L.P., "Pulp revascularization in reimplanted immature monkey incisors- predictability and the effect of antibiotic systemicisation prophylaxis". **Endodontics & Dental Traumatology**, 6 (1990), 157-169.
43. Granath, L., Cleaton-Jones, P., Fatti, P., Grossman, E., "Correlations between caries prevalence and potential etiological factors in large samples of 4-5-yr-old children". **Community Dentistry and Oral Epidemiology**, 19 (1991), 257-260.
44. Mizrahi, E., Cleaton-Jones, P., Luyckz, S., Fatti, L.P., "The effect of ion implants on the beaks of orthodontic pliers". **Am. J. Orthod. Dentofac. Orthop.**, 99 (1991), 513-519.
45. Arregui, M.L., Moyes, D.G., Lipman, J. and Fatti, L.P., "Comparison of disease severity scoring system in septic shock". **Critical Care Medicine**, 19 (1991), 1165-1171.
46. Granath, L., Cleaton-Jones, P., Fatti, L.P., Grossman, E.S., "Prevalence of Dental Caries in 4- to 5-Year-Old Children Partly Explained by Presence of Salivary Mutans Streptococci". **Jnl. Of Clinical Microbiology**, 31 (1993), 66-70.
47. Roberts, G.J., Cleaton-Jones, P.E., Fatti, L.P. et al, "Patterns of breast and bottle feeding and their association with dental caries in 1- to 4-year-old South African Children. 1. Dental caries prevalence and experience". **Community Dental Health**, 10 (1993), 405-413.
48. Roberts, G.J., Cleaton-Jones, P.E., Fatti, L.P. et al, "Patterns of breast and bottle feeding and their association with dental caries in 1- to 4-year-old South African children. 2. A case control study of children with nursing caries". **Community Dental Health**, 11 (1994), 38-41.
49. Cleaton-Jones, P.E., Chosak, A., Hargreaves, J.A. and Fatti, L.P., "Dental caries and social factors in 12-year-old South African Children". **Community Dentistry and Oral Epidemiology**, 22 (1994), 25-29.
50. Granath, L., Cleaton-Jones, P., Fatti, L.P., Grossman, E.S., "Salivary lactobacilli explain dental caries better than salivary mutans streptococci

- in 4-5-year-old children". **Scandinavian J. of Dental Research**, 102 (1994), 319-323.
51. Mitchell, G., Fatti, L.P., et al, "Determination of the normal concentration of testosterone equivalents in the urine of geldings, fillies and colts". **Proceeding of the 11th International Conference of Racing Analysts and Veterans**, Queensland, Australia (1996), 312-315.
52. Anderson, J., Anderson, H., Fatti, P., Sichel, H., "The Triassic Explosion (?): a Statistical Model for Extrapolating Biodiversity Based on the Terrestrial Molteno Formation". **Paleobiology**, 22 (1996) 318-328.
53. Thompson, M.L. and Fatti, L.P., "The use (and abuse) of reference centiles with an application to weight in pregnancy". **South African Medical Journal**, 87, (1997), 206-213.
54. Thompson, M.L., Theron, G.B. and Fatti, L.P., "Predictive value of conditional centile charts for weights and fundal height in pregnancy in detecting light for gestational age births". **European Journal of Obstetrics & Gynecology and Reproductive Biology**, 72 (1997), 3-8.
55. Hargreaves, J.A., Cleaton-Jones, P.E., Fatti, L.P. et al, "Eruption of primary teeth in South Africans from one year of age". **South African Journal of Science**, 93 (1997), 81-84.
56. Cleaton-Jones, P.E., Hargreaves, J.A., Chosak, A. Boardman, M., MacKeown, J. and Fatti, L.P., "Are salivary mutans streptococci associated with social factors in 12-year-old South Africans?". **South African Journal of Epidemiology and Infection**, 12 (1997), 3-6.
57. Lownie, J.F., Cleaton-Jones, P.E., Fatti, L.P. et al, "Vascularity of dental pulp after segmental osteotomy in the chacma baboon (*Papio ursinus*)". **British Journal of Oral and Maxillofacial Surgery**, 36 (1998), 285-289.
58. Cleaton-Jones, P.E. and Fatti, L.P., "Dental Caries Trends in Africa". **Community Dentistry and Oral Epidemiology**, 27 (1999), 316-320.
59. Cleaton-Jones, P.E., Richardson, B.D., Granath, L., Fatti, L.P. et al, "Nutritional status and dental caries in a large sample of 4- and 5-year-old South African children". **SA Journal of Community Nursing**, 13 (2000), 80-84.
60. Cleaton-Jones, P.E., Williams, S. and Fatti, L.P., "Surveillance of primary dentition caries in Germiston, South Africa, 1981-97". **Community Dentistry and Oral Epidemiology**, 28 (2000), 267-273.

61. Cleaton-Jones, P.E., Hargreaves, J.A., Daya, N., Cortes, D., Hargreaves, V. and Fatti, L.P., "Examiner performance with visual, probing and FOTI caries diagnosis in the primary dentition". **South African Dental Journal**, 56 (2001), 182-185.
62. Grossman, E.S., Cleaton-Jones, P.E., Daya, N.P., Parak, R.B., Cortes, D., Fatti, L.P. and Hargreaves, J.A., "Accurate diagnosis of occlusal carious lesions – a stereo microscope evaluation of clinical diagnosis". **South African Dental Journal**, 57 (2002), 215-220.
63. MacKeown, J., Cleaton-Jones, P.E. and Fatti, L.P., "Caries and micronutrient intake among urban South African children: a cohort study". **Community Dentistry and Oral Epidemiology**, 31 (2003), 213-220.
64. Toi, C.S., Cleaton-Jones, P.E. and Fatti, L.P., "Characterisation of *Streptococcus Mutans* diversity by determining restriction fragment-length polymorphisms of the *gtfB* gene of isolates from 5-year-old children and their mothers". **Antonie van Leeuwenhoek**, 88 (2005), 75-85.
65. Cleaton-Jones, P., Bönecker, M. and Fatti, P., "Dental caries trends in 5-6-year-old and 11-13-year-old children in three Unicef designated regions – Sub Saharan Africa, Middle East and North Africa, Latin America and Caribbean: 1970-2000". **Int. Dent. J.** (2006), 56: 294-300.
66. Cleaton-Jones P., Williams S., Green C, and Fatti P., "Dental Caries rates in primary teeth in 2002, and caries surveillance trends 1981-2002, in a South African city". **Community Dent. Health** (2008), 25: 79-83.
67. Coogan M.M, MacKeown J., Galpin J.S. and Fatti L.P., "Microbiological impressions of teeth, saliva and dietary fibre can predict caries activity". **Journal of Clinical Dentistry**, 36 (2008), 892-899.
68. Cleaton-Jones P, Fatti LP, "Dental caries in children in South Africa and Swaziland 1919 – 2007: a systematic review". **Int. Dent. J.**, 59 (2009), 363-368.
69. Khammissa, R., Feller, L., Altini, M., Fatti, P. and Lemmer, L., "A comparison of chronic periodontitis in HIV-seropositive subjects and the general population in the Ga-Rankuwa area, South Africa". **AIDS Research and Treatment**, (2012), Article ID 620962.
70. Gaylard, P.C., Ballim Y. and Fatti, L.P., "A model for the drying shrinkage of South African concretes". **Journal of the S.A. Institution of Civil Engineering**, 55 (2013), 45-59.

STATISTICAL METHODOLOGY

1. L.P Fatti, "The Random Effects Model in Discriminant Analysis". Ph.D Thesis, University of the Witwatersrand (1979), 289 pp.
2. L.P Fatti, "Predictive Discriminant Analysis under the Random Effects Model". **South African Statistical Journal**, 16 (1982), 55-77.

3. L.P Fatti, D.M. Hawkins and E.L. Raath, "Discriminant Analysis". Appearing in "Topics in Applied Multivariate Analysis", Editor D.M. Hawkins, pp. 1-71, Cambridge University Press, 1982.
4. L.P Fatti, "The Random Effects Model in Discriminant Analysis". **Journal of the American Statistical Association**, 78 (1983), 679-687.
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