

Curriculum Vitae

NAME: Julia Volaufova, Ph.D.

ACADEMIC RANK: Professor

EDUCATION:

- 1974 Graduate (equivalent to M.S.), Probability and Mathematical Statistics, Faculty of Natural Sciences, Comenius University Bratislava, Czechoslovakia; theses under L.Kubáček.
- 1975 RNDr. (Rerum Naturalis Doctor), Faculty of Natural Sciences, Comenius University Bratislava, Czechoslovakia.
- 1984 Candidate of Sciences (equivalent to Ph.D.), Probability and Statistics, Faculty of Mathematics and Physics, Comenius University Bratislava, Czechoslovakia; dissertation under L. Kubáček.

PROFESSIONAL EXPERIENCE:

- 1974 - Research Scientist, Department of Theoretical Methods, Institute of Measurement Sciences, Slovak Academy of Sciences
- 1994-fall sem. Visiting Associate Professor, Dept. of Biometry and Genetics, LSU Medical Center, New Orleans, LA
- 1995 - 1996 Visiting Associate Professor, Dept. of Experimental Statistics, LSU, Baton Rouge, LA
- 1995 - 1997 Visiting Associate Professor, Dept. of Biostatistics, Pennington Biomedical Research Center, LSU, Baton Rouge, LA
- 1997 - 2002 Associate professor – research, Head, Biostatistics and Data Management Core, Pennington Biomedical Research Center, LSU, Baton Rouge, LA
- July 2002 – June 2004 Professor – research, Head, Biostatistics and Data Management Core, Pennington Biomedical Research Center, LSU, Baton Rouge, LA
- July 2004 - Professor, Biostatistics Program, School of Public Health, LSUHSC New Orleans

- July 2004 - Adjunct professor, Pennington Biomedical Research Center, LSU, Baton Rouge, LA
- July 2005 - Adjunct professor, Department of Experimental Statistics, LSU, Baton Rouge, LA

PROFESSIONAL ORGANIZATION MEMBERSHIPS:

American Statistical Association
Institute of Mathematical Statistics
Mathematical Association of America
International Linear Algebra Society
Union of Slovak Mathematicians and Physicists

GRANTS AND OTHER PROJECTS:

Completed:

1. Research study stay grant under an exchange program between Deutsche Forschungs Gemeinschaft (DFG) and the Slovak Academy of Sciences. Institute of Stochastik, University Augsburg, September - October, 1988. (Prof. Friedrich Pukelsheim).
2. "Delta Nutrition Project". Role on project: statistical analysis supervisor. (G. Bray PI). USDA 58-6251-7-008. 1995-1999.
3. "24 Week Multicenter Randomized Double-Blind Placebo-Controlled Parallel Group Study to Investigate the Efficacy and Tolerability of 300 mg per Day or 400 mg per Day of Bupropion SR Compared to Placebo for Treatment of Obesity". Role on the project - **contract**: supervisor of statistical analysis from all 6 centers. (J. Anderson/ F.Greenway PI). Glaxo Welcome. 1999 -2001.
4. "Efficacy of Diet Therapy in Subjects at Risk for CHD". Role on project: statistical analysis supervisor. (M.Lefevre PI) NIH(NHLBI) R01 HL56241-01A1. 1997 - 2000.
5. "Military Nutrition Research: Eight Tasks to Address Medical Factors Limiting Soldier Effectiveness". Role on project: : statistical analysis supervisor. (D.Ryan PI). US Army DAMD17-97-2-7013. 1997 - 2002.
6. USDA Delta NIRI. Role on project: statistical consultant.
7. "Development and Health Benefits of Functional Foods Derived from Mid South Crops". Role on project: statistical analysis supervisor (M. Lefevre PI) Arkansas-Sub. USDA 76-00, 2000 - 2004.
8. "Military Nutrition Research". Role on project: statistical analysis supervisor. (D. Ryan PI). US Army 054-01. 2001 - 2006.
9. "Metabolic Adaptations to Two Year Caloric Restrictions". CALERIE. \$2,000,000, Role on project: co-investigator, responsible for statistical issues. (E. Ravussin PI). NIH(NIA) 080-01. 2002-2005.

Active:

1. "Insulin Sensitivity in Children with Low Birth Weight". \$516,342, Role on the project: statistician. (M. Sothern PI). NIH 018-01, 10/2004 – 08/2006, 10%.
2. "Mechanisms for the Metabolic Syndrome in Prepubertal African-American and Causacian children". First year budget: \$397,869.-. NIH Grant Number: 1 R01 HD049046-01. Principal Investigator: SOTHERN, MELINDA PHD. Role on the project: statistician. Project duration: 05/16/2005 - 02/28/2010, 5%.
3. Changes in Alcohol availability and HIV rates – Dr. Richard Scribner PI, role on a project: statistician, 5%.
4. COBRE – Center of Biomedical Research Excellence. "Mentoring Translational Researchers in Louisiana – Statistics Core". LSUHSC. NIH/NCRR 1-P20 RR021970 (01). Dr. Augusto Ochoa PI, role on the project: Director of Biostatistics Core. Project duration: 10/01/2005 – 09/30/2010, 10%.
5. "LA healthy Aging project ", Dr. Michale Jazwinski PI (contact Dr. Joseph Su), role on the project –statistician, 20%.

HONORS AND AWARDS:

Invited Talks:

1. **Volaufová J.** Estimation of parameters of mean in n-stage linear models. Talk at the University Augsburg, Germany, April 1986.
2. **Volaufová J.** Charakteristiki točnosti v linejnjoj regresionnoj modeli. (In Russian). Talk at JINR Dubna, U.S.S.R., September 1986.
3. **Volaufová J.** The variance of two-stage estimator in variance-covariance components model. Talk at the University Augsburg, Germany, October 1988.
4. **Volaufová J.** Locally best MSE estimator of variance components in mixed linear models. Talk at Workshop "Variance components --- estimation and testing", Wroclaw, Poland, September 1990.
5. **Volaufová J.** Linear estimation of variance-covariance components under linear restrictions. Colloquium at the Department of Statistics, Penn State University, State College, October 27, 1994.
6. **Volaufová J.** Linear estimation of variance-covariance components under linear restrictions. Colloquium at the Department of Experimental Statistics, Louisiana State University, Baton Rouge, October 17, 1994.
7. **Volaufová J.** Estimation and Prediction in a Special Type of Random Effects Model. Colloquium at the Department of Biometry and Genetics, LSU Medical Center, New Orleans, December 5, 1994.
8. **Volaufová J.,** L.R. LaMotte, and A.Brezna. Interval estimation of noncentrality parameter of noncentral F-distribution. Talk presented at the Third International Conference PROBASTAT'98. February 9-13, 1998, Smolenice, Slovak Republic.

9. **Volaufová J.** Estimation problems in a multistage linear model. Invited plenary session talk at the Ninth International Workshop on Matrices and Statistics. December 9 - 13, 2000. Hyderabad, India.
10. **Volaufova, J.,** LaMotte, L.R.: Comparison of Fixed Effects Tests in Two-Way Heteroscedastic Mixed Models. Twelfth International Workshop on Matrices and Statistics. Dortmund, Germany, August 5 -- 8, 2003.
11. **Volaufova, J.,** LaMotte, L.R.: On Estimation and Testing for Fixed Effects in Two-Way Heteroscedastic Mixed Models. Statistical Inference in Linear Models STATLIN Bedlewo, Poland, August 21 -- 27, 2003.
12. **Volaufova, J.:** Statistical Methods in Biomedical Research and Measurement Science. Keynote plenary talk at the 5th International Conference Measurement 2005. Smolenice Castle, Slovakia, **May 15-19. 2005.**

PUBLICATIONS:

Books on Statistics:

Kubáček L., Kubáčková L, and **Volaufová J.** Statistical Models with Linear Structures. Veda, Publishing House of the Slovak Academy of Sciences. pp.iv+471, 1995.

Original Manuscripts on Statistics in Refereed Journals:

1. **Volaufová J.** On the confidence region of a vector parameter. *Mathematica Slovaca*, 30(2):113--120, 1980.
2. **Volaufová J.** Estimation of polynomials in the regression model. *Aplikace matematiky*, 27(3):223--231, 1982.
3. **Volaufová J.** and Kubáček L. Locally and uniformly best estimators in replicated regression model. *Aplikace matematiky*, 28(5):386--390, 1983.
4. Kleffe J. and **Volaufová J.** Optimality of the sample variance --- covariance matrix in repeated measurement designs. *Sankhya: The Indian Journal of Statistics, Series A*, 47(1):90--99, 1985.
5. **Volaufová J.** and Volauf P. On (non)elementary statistics via plain of the square. (In Slovak). *Matematické obzory*, 32:35--46, 1989.
6. **Volaufová J.** Estimation of parameters of mean and variance in two stage linear models. *Aplikace matematiky*, 32(1):1--8, 1987.
7. **Volaufová J.** Note on the estimation of parameters of mean and variance in n-stage linear models. *Aplikace matematiky*, 33(1):41--48, 1988.
8. **Volaufová J.** and Volauf P. Estimation of quadratic function of parameter of mean. *Aplikace matematiky* 34:155-160, 1989.
9. **Volaufová J.** and Witkovsky V. Least squares and minimum MSE estimators of variance components in mixed linear models. *Biometrical Journal*, 33(8):923--36, 1991.

10. **Volaufová J.** and Witkovský V. Estimation of variance components in mixed linear models. *Applications of Mathematics*, 37(2):139--148, 1992.
11. **Volaufová J.** On the variance of two-stage estimator in variance-covariance components model. *Applications of Mathematics*, 38(1):1--9, 1993.
12. **Volaufová J.** MINQUE of variance components in replicated and multivariate linear model with linear restrictions. *QÜESTIIÓ*. 17(2):183--201, 1993.
13. **Volaufová J** and Komorník, J. Weighted multivariate regression estimates solved by random effects approach. *Biometrical Journal*. 36(3):275--283, 1994.
14. Bognarova M., Kubacek L., **Volaufová J.** Comparison of MINQUE and LMVQUIE by simulation. *Acta Univ. Palacki. Olomouc. Fac. Rer. Nat., Mathematica* 35:25-38, 1996.
15. **Volaufová J** and LaMotte LR. A note on invariant quadratics. *Linear Algebra and Its Applications*. 264:247-253, 1997.
16. LaMotte LR and **Volaufová J.** Prediction Intervals via Consonant Intervals. *The Statistician*. 48 Part 3:419-424, 1999.
17. **Volaufová J.** Some estimation problems in a two-stage linear model - revisited. *Tatra Mountains Mathematical Publications*. 22:171 – 178, 2001.
18. **Volaufová J.** Some estimation problems in multistage linear models. *Linear Algebra and Its Applications*. 388: 389-397, 2004.

Original Manuscripts on Statistics in Refereed Proceedings Published as Books:

1. Pázman A. and **Volaufová J.** Polynomials of parameters in the regression model-estimation and design. In Wet al. Grossmann, editor, *Probability and Statistical Inference*, pages 275-285, Dordrecht, Holland, 1982. D. Reidel Publishing Company.
2. **Volaufová J.** Quadratic estimation of variance components in replicated linear model with linear restrictions. In: J. Volaufová, and A. Pázman, editors, *PROBASTAT '91, International Conference on Probability and Mathematical Statistics. Proceedings*, Bratislava, August 1991.
3. **Volaufová J.** A brief survey on the linear methods in variance-covariance components model. In: Werner Müller, H.P. Wynn, and A.A. Zhigljavsky (Eds.) *Model-Oriented Data Analysis, Proceedings of the 3rd International Workshop*, Petrodvorets, Russia, May 25--30, 1992. Physica Verlag Vienna 185--196, 1993.
4. **Volaufová J.** Estimation of parameters in a special type of random effects model. In: Calinski and R. Kala (Eds.) *Proceedings of the International Conference on Linear Statistical Inference LINSTAT '93*, Poznan, Poland, May 31 -- June 4, 1993. Kluwer Academic Publishers, 177-182, 1996.
5. **Volaufová J.** The empirical linear predictor and its MSE. In: A. Pázman and V. Witkovský (Eds.) *PROBASTAT '94, Proceedings of the Second International Conference on Mathematical Statistics*, Smolenice, May 30 --- June 3, 1994. Tatra Mountains Mathematical Publications, Mathematical Institute Slovak Academy of Sciences, Bratislava, 177 -- 182, 1996.
6. **Volaufová J** and LaMotte LR. Interval estimation of noncentrality parameter of F-distribution. *Proceedings of the Third International Conference on Mathematical Statistics*, Smolenice, February 9 - 13, 1998. Tatra Mountains Mathematical

Publications. Vol. 17. Mathematical Institute Slovak Academy of Sciences, Bratislava, 83 -- 89, 1999.

7. **Volaufova J**, Redmann, S., and LaMotte LR. Is Logistic regression the best for binomial response? *Tatra Mountains Mathematical Publications*. PROBATAT'02, PART II, Eds.: Frantisek Stulajter, Gejza Wimmer. Volume 26, 2003.

Articles on applications in refereed journals:

1. Rybkin II, You Zhou, **Volaufova J**, GN Smagin, DH Ryan, and RBS Harri. The effect of restraint stress on food intake and body weight is determined by time of day. *Am. J. Physiol.* 273 (Regulatory Integrative Comp. Physiol. 42): R1612-R1622, 1997.
2. Borne, A.T., AA Truett, MP Monteiro, **Volaufova, J.**, and West, D.B. Changes in skeletal muscle vascular resistance with weight gain: associations with insulin and sympathetic activity. *Obes.Res.* 7(1): 68-75. 1999.
3. Ryan Donna H., George A. Bray, Fred Helmcke, Gary Sander, **Julia Volaufova**, Frank Greenway, Pramilla Subramaniam, and D. Luke Glancy. Serial echocardiographic and clinical evaluation of valvular regurgitation before, during and after treatment with fenfluramine or dexfenfluramine and mazindol or phentermine. *Obesity Research.* 7(4):313—323, 1999.
4. Bray, G.A., J.P. DeLany, D.W. Harsha, **J. Volaufova** and C.C. Champagne. Evaluation of body fat in fatter and leaner 10-y old African-American and white children: the Baton Rouge Children's Study. *Am J Clin Nutr.* April 2001;73:687-702.
5. Waters WF, Magill RA, Bray GA, **Volaufova J**, Smith SR, Lieberman HR, Hurry M, Anderson T, Ryan DH. A comparison of tyrosine, against phentermine, caffeine, and d-amphetamine during sleep deprivation. *Nutritional Neuroscience* 6(4):221-235, 2003.
6. Magill RA, Waters WF, Bray GA, **Volaufova J**, Smith SR, Lieberman HR, McNevin N, Ryan DH. Effects of tyrosine, phentermine, caffeine, d-amphetamine, and placebo on cognitive and motor performance deficits during sleep deprivation. *Nutritional Neuroscience* 6(4):237-246, 2003.
7. DeLany, J.P., Bray, G.A., Harsha, D.W., **Volaufova, J.** Energy expenditure in preadolescent African American and white boys and girls: the Baton Rouge Children's Study. *American Journal of Clinical Nutrition.* 75 (4): 705-713 APR 2002.
8. Smith SR, De Jonge L, Zachwieja J, Roy H, Tuong Nguyen, Rood J, Windhauser M, **Volaufova J**, and Bray GA.: Concurrent physical activity increases fat oxidation during the shift to a high-fat diet¹⁻³. *American Journal of Clinical Nutrition.* 72:131-8. 2000.
9. Bray GA, Lovejoy JC, Most-Windhauser M, Smith SR, **Volaufova J**, Denkins Y, de Jonge L, Rood J, Lefevre M, Eldridge AL, Peters JC: A 9-mo randomized clinical trial comparing fat-substituted and fat-reduced diets in healthy obese men: the Ole Study. *American Journal of Clinical Nutrition.* 76 (5): 928-934 NOV 2002.

10. Roy, H.J., Windhauser Most, M., Sparti A., Lovejoy, J.C., **Volaufova, J.**, Peters, J.C., and Bray G.A.. Effect on body weight of replacing dietary fat with Olestra for two or ten weeks in healthy men and women. *Journal of the American College of Nutrition*. 21 (3): 259-267. June 2002.
11. Smith, K.B., **Volaufova, J.**, and West, D.B. Increased flavor preference and lick activity for sucrose and corn oil in SWR/J versus AKR/J mice. *Am J Physiol Regul Integr Comp Physiol*. 2001 Aug; 281(2):R596-606.
12. Smith, S.R., Lovejoy, J.C., Greenway, F, Ryan, D.H., deJonge, L., de la Bretonne, J., **Volaufova, J.**, and Bray, G.A.. Contributions of total body fat, abdominal subcutaneous adipose tissue compartments, and visceral adipose tissue to the metabolic complications of obesity. *Metabolism*, Vol 50, No 4 (April), 2001: pp 425-435.
13. Bray, G.A., J.P. DeLany, D.W. Harsha, **J. Volaufova** and C.C. Champagne. Body composition of twelve-year-old African-American and Caucasian children: A 2-year follow-up of the Baton Rouge Children's (BAROC) study. *Obesity Research* 9 10 605-21. October 2001.
14. Bray, G.A., J.P. DeLany, **J. Volaufova**, D.W. Harsha, and C.C. Champagne. Prediction of body fat in 12-y-old African American and white children: evaluation of methods. *American Journal of Clinical Nutrition*. 76 (5): 980-990 NOV 2002
15. Smith, S.R., deJonge, L., Zachweija, J.J., **Volaufova, J.**, and Bray, G.A.: Excess Post-Exercise Oxygen Consumption: Interaction with Dietary Fat Content. Submitted to *Medicine & Science in Sports & Exercise*. July 2001.
16. A. M. Brown, D. K. Mayfield, **J. Volaufova** and G. Argyropoulos: The gene structure and minimal promoter of the human agouti related protein. *Gene* 277 1-2 231-8. October 2001.
17. Berthaud Hans-Rudolf, Henning Grant, Campbell Matthew, **Volaufova Julia**, and Costa Marcello: Video-based spatio-temporal maps for analysis of gastric motility in vitro: effects of vagal simulation in guinea pigs. *Neurogastroenterology & Motility*. 14 (6): 677-688 DEC 2002.
18. DeLany, J., Bray, G.A., Harsha, D.W., **Volaufova J.**: Energy expenditure in African American and White boys and girls in the 2-year follow-up of the Baton Rouge Children's study. *American Journal of Clinical Nutrition*. 79(2):268-273 February 2004.
19. Smith SR, Lovejoy JC, Rood J, Windhauser M, Wickersham PJ, **Volaufova J**, Ryan D, Tulley R, Bray GA. Effects of triiodothyronine on bone metabolism in healthy ambulatory men. *Thyroid*. 13(4):357-364. May 2003.
20. Champagne CM, Bray GA, Kurtz AA, Monteiro JBR, Tucker E, **Volaufova J**, Delany JP. Energy intake and energy expenditure: A controlled study comparing dietitians and non-dietitians. *Journal of the American Dietetic Association*. 102 (10): 1428-1432 OCT 2002.
21. Richards Smith, BK., Belton BN., Poole AC., Mancuso JJ., Churchill GA., Li R., **Volaufova J**, Zuberi A, and York B. QTL analysis of self-selected macronutrient diet intake: fat, carbohydrate, and total kilocalories. *Physiol Genomics* 11: 205-217, 2002. First published September 17, 2002; 10.1152/physiolgenomics.00037.2002.
22. Brenda K. Smith Richards, Brenda N. Belton, Barbara York, **Julia Volaufova**. Mice bearing Acads mutation display altered postingestive but not 5-s orosensory

- response to dietary fat. *American Journal of Physiology: Regulatory, Integrative and Comparative Physiology*. 286 (2): R311-R319 FEB 1 2004.
23. Steven R. Smith, M.D., Jennifer C. Lovejoy, Ph.D., George A. Bray, M.D., Jennifer Rood, Ph.D., Marlene M. Most, Ph.D., R.D., Peter J. Wickersham, MS, MAppStat, Julia Volaufova, Ph.D., and Donna H. Ryan, MD. Effects of triiodothyronine on calcium balance during bed rest. Submitted to *Metabolism*. August, 2005.
 24. Steven R. Smith, Lilian de Jonge, **Julia Volaufova**, Yinmei Li, Hui Xie, and George Bray. Effect of pioglitazone on body composition and energy expenditure: a randomized controlled trial. *Metabolism Clinical and Experimental*. 54 (1): 24-32. January **2005**.
 25. **Volaufova, J.:** Statistical Methods in Biomedical Research and Measurement Science. *Measurement Science Review*. June 2005.
 26. Tulley, R.T., Vaidyanathan, J., Wilson, J.B., Rood, J.C., Lovejoy, J.C., Most, M.M., Volaufova, J., Peters, J.C., and Bray, G.A.. Daily intake of multivitamins during long-term intake of Olestra in men prevents declines in serum vitamins A and E but not carotenoids. *Journal of Nutrition*. Vol. 135, No.6: 1456-1461 June 2005.
 27. Donald A. Williamson, Paula J. Geiselman, Jennifer Lovejoy, Frank Greenway, Julia Volaufova, Corby K. Martin, Cheryl Arnett, and Lauren Ortego: Effects of Consuming Mycoprotein or Tofu upon Subsequent Eating Behavior, Hunger, and Satiety. *Appetite* 46 (1): 41-48, January **2006**.
 28. Lovejoy JC, Bray GA, Lefevre M, Smith SR, Most MM, Denkins YM, **Volaufova J**, Rood JC, Eldridge AL, Peters JC. Consumption of a controlled low-fat diet containing olestra for 9 months improves health risk factors in conjunction with weight loss in obese men: the Ole study. *International Journal of Obesity*. 27 (10): 1242-1249 OCT 2003.
 29. Martin J, Wang Zhong G, Zhang Xian, Jones, RL, **Volaufova J**, Cefalu WT, and Matthews DE. Chromium Piccolinate Supplementation Attenuates Body Weight Gain and Increases Insulin Sensitivity in Subjects with Type 2 Diabetes. *Diabetes Care*. 29 (8): 1826-1832, Aug 2006..
 30. Leonie K Heilbronn, James DeLany, Lilian de Jonge, Madlyn Frisard, D. Enette Larson Meyer, Jennifer Rood, Tuong Nguyen, Corby K. Martin, **Julia Volaufova**, Marlene M Most, Frank L Greenway, Steven R Smith, Walter Deutsch, Donald Williamson, Eric Ravussin. Effect of 6-months calorie restriction on biomarkers of longevity, metabolic adaptation, and oxidative stress in overweight individuals. *JAMA*. April 5, **2006**. Vol 295. No.13.
 31. Martin C.K., Heilbronn, L.K., Levitan L., **Volaufova J.**, Anton S.D., Greenway F.L., Smith S.R., Williamson D.A., Ravussin E. Effect of calorie restriction on the metabolic adaptation of resting metabolic rate and spontaneous physical activity. Submitted to *IJO* **June 2006**.
 32. K. Ganesh Kumar, Angela C. Poole, Barbara York, Julia Volaufova³ Amir Zuberi, and Brenda K. Smith Richards. Quantitative trait loci for carbohydrate and total energy intake on mouse Chromosome 17: Congenic strain confirmation and candidate gene analyses (Glo1, Glp1r). *American Journal of Physiology – Regulatory, Integrative and Comparative Physiology*. E-published September 2006.

33. DeLany JP, Bray GA, Harsha DW and Volaufova J. Energy expenditure and substrate oxidation predict changes in body fat in children. *Am J Clin Nutr* 2006; 84(4):862-70.

Papers on Statistics Published in Proceedings (not refereed)

1. **Volaufová J.** Nonlinear estimators in regression model. (In Slovak). In *PROBASTAT'80. Teoretické problémy merania. Sympóziu TC--7 CSNK, page 55, ÚMMT SAV, Bratislava, 1980. ÚMMT SAV.*
2. Bognárová M., **J. Volaufová**, and Štulajter F. Empirical study of statistical properties nonlinear estimator. (In Slovak). In *EMISCON'80. Zborník príspevkov, pages 23-26, Kosice, 1981. CSVTS.*
3. **Volaufová J.** and Bognárová M. Estimation of regression coefficients under unknown covariances. (In Slovak). In *EMISCON '83. Zborník príspevkov, pages II/48-59, Kosice, 1983. CSVTS.*
4. **Volaufová J.** Estimation of parameters in two stage etalon networks. In *Xth IMEKO World Congress, Vol 1, pages 99-104, Praha, 1985. House of Techn. CSVTS.*
5. Kubáčková L. and **Volaufová J.** On optimal processing of measurement data. (In Slovak). In *Současné problémy gravimetrie. Zborník z celoštátneho seminára 9.-13.6 Liblice, page 7, Brno, jún 1986. Geofyzika, k.p.*
6. **Volaufová J.** and Volauf P. Estimation of quadratic function of mean of parameter. (In Slovak). In *PROBASTAT '87. Zborník príspevkov, pages 118--119, Liptovský Mikuláš, 1987. JSMF -- VVTŠ CSSP.*
7. **Volaufová J.** and Bognárová M. On the generator of the random sample from distribution with affected normality. (In Slovak). In *ALGORITMY '87, number 9 in Kniznica algoritmov, pages 29/343--349, Bratislava, 1987. JSMF.*
8. **Volaufová J.**, Witkovský V, and Bognárová M. Confidence region of the mean parameter in mixed linear model. (In Slovak). In *ROBUST '88. Zborník prací letní školy, pages 123--124, Praha, 1988. JCSMaF.*
9. **Volaufová J.** Structures of linear models in measurement. (In Slovak). In *Meranie a výpočtová technika, pages 13--15, Bratislava, 1989. DT SVTS.*
10. **Volaufová J.** and Witkovský V. Statistical properties of LSE of variance components in mixed linear models. (In Slovak). In *ROBUST '90, pages 182--191, Liblice, 1990. JCSMaF.*
11. **Volaufova J.** Estimation of nonlinear function of variance components in multi-stage model with linear restrictions. (In Slovak). In *EMISCON '91 10th Conference. MEASUREMENT '91 2nd Conference. Proceedings, pages 121--126, Bratislava, March 1991. UM SAV.*
12. **Volaufova J.** Estimation in growth-curve model with missing data. In *MEASUREMENT '92 3rd Conference. Proceedings, Smolenice, May 18-20, 1992. UM SAV.*

13. **Volaufova J.** Estimation of variance components in growth curve models with restrictions. (In Slovak). In ROBUST '92, Herbertov, September 14 – 18, 1992. JCSMaF.
14. **Volaufova J.** Best linear empirical predictor and estimation of its MSE. (In Slovak). In ROBUST '94, Malenovice, January 17 –21, 1994. JCSMaF.

Posters:

1. **Volaufova J.** Estimation of polynomials. Poster at 5th Summer school, Sellin, Germany, 1981.
2. **Volaufova J.** Theoretical aspects of modeling with respect to regression. Poster at IMEKO Workshop, Prague, March 1988.
3. **Volaufova J.**, V. Witkovský, and M. Bognárová. On the confidence region of parameter of mean in mixed linear models. Poster at European meeting of Statisticians, Berlin, August 1988.
4. Ryan DH, Bray GA, Helmcke F, Sanders G, **Volaufova J**, Alfonso A, Greenway F, Subramaniam PN, and Glancy DL. Serial echocardiographic/clinical evaluation: Patients treated with fenfluramine (F) or dexfenfluramine (D). Poster presented at Nutrition, Genetics, and Obesity Symposium. March 1 - 3, 1998, PBRC. Baton Rouge, USA

Abstracts:

1. Barkate M., Windhauser M, Schorle S, S. Richard, **Volaufova J**, M. Lefevre. The effect of chronic defatted rice bran consumption on postprandial lipemia. *FASEB J* 10:A256, 1996.
2. Ryan, D.H., G.A. Bray, F. Helmcke, G. Sander, **Volaufova J**, F. Greenway, P.N. Subramaniam, D.L. Glancy. Serial Echocardiographic/Clinical Evaluation: Patients Treated with Fenfluramine (F) or Dexfenfluramine (D). Nutrition, Genetics and Obesity Symposium, March 1998 (Abs).
3. Ryan D.H., G.A. Bray, F. Helmcke, G. Sanders, **Volaufova J**, F. Greenway, P.N. Subramaniam, and D.L. Glancy. Echocardiographic abnormalities in patients treated with fenfluramine (F) or dexfenfluramine (D). Submitted to the 8th International Congress on Obesity. August 29 - September 3, 1998, Paris.
4. Windhauser, M.M., Harsha, D, **Volaufova, J**. Does almond consumption have a beneficial impact on blood pressure? *FASEB J* 14, Iss 4:A219, 2000 .
5. Bray GA, DeLany JP, Harsha DW, **Volaufova J**, Champagne C. Tracking of body fat changes over 2 years in lean and obese children. *Obesity Research* 8: O23, Suppl. 1 OCT 2000.
6. DeLany JP, Bray GA, Harsha DW, **Volaufova J**, Champagne C. Energy expenditure measurements in lean and obese girls and boys. *Obesity Research* 8: O63, Suppl. 1 OCT 2000.
7. DeLany JP, Bray GA, Harsha DW, **Volaufova J**, Champagne C. Energy expenditure in African American and Caucasian boys and girls in the 2-year

- follow-up of the Baton Rouge Children's (BAROC) Study. *OBES RES* 9: 74S-74S Suppl. 3 SEP 2001 .
8. Champagne CM, DeLany JP, Kurtz AA, , **Volaufova J**, Monteiro JBR, Bray GA. Reported energy intakes versus energy expenditure in dietitians and controls. *OBES RES* 9: 123S-123S Suppl. 3 SEP 2001
 9. Bray GA, DeLany JP, **Volaufova J**, et al. Predicting body fat in children: A comparison of methods using the Bland Altman approach. *OBES RES* 9: 134S-134S Suppl. 3 SEP 2001.
 10. Sothorn M, Van Vrancken C, Loftin M, **Volaufova J**, Reed J, Singley C, Udall J. Adult/child differences in the physiologic response to submaximal weight-bearing exercise in individuals with increasing obesity levels. *OBES RES* 9: 156S-156S Suppl. 3 SEP 2001 .
 11. Bray G, Lieberman H, Magill R, Ryan D, **Smith SR**, Volaufova J, Waters W. Caffeine effects during sleep deprivation and recovery. In: *Caffeine for the Sustainment of Mental Task Performance*, Formulations for Military Operations, Institute of Medicine. Committee on Military Nutrition Research Food and Nutrition Board. National Academy Press, Washington, D.C., 2001.
 12. Champagne CM, DeLany JP, Kurtz AA, **Volaufova J**, Bray GA. Reported energy intakes versus energy expenditure using doubly labeled water in dietitians and non-dietitian controls. *American Journal of Clinical Nutrition*.75 (2): P53 Suppl. S FEB 2002.
 13. Smith SR, **Volaufova J**, Bray GA. Effect of Pioglitazone (ACTOS) on Body Fat and Visceral Adipose Tissue. Presented at the Annual NAASO Meeting, 2003.
 14. James P. DeLany, Ph.D., George A. Bray, M.D., David W. Harsha, Ph.D., Catherine M. Champagne, Ph.D., and **Julia Volaufova**, Ph.D.: Longitudinal Decrease in Activity Energy Expenditure in Children Measured by Doubly Labeled Water and Activity Monitors. Presented at the annual NAADO meeting, For Lauderdale, Florida, October 2003.
 15. George A. Bray, M.D., **Julia Volaufova**, Ph.D., James P. DeLany, Ph.D., Jean-Pierre Flatt, Ph.D., and Catherine M. Champagne, Ph.D.: Human Food Intake: Does the Flatt Hypothesis Apply? Presented at the annual NAADO meeting, For Lauderdale, Florida, October 2003.
 16. Steven R. Smith, M.D., Lenka Janderova, MS, **Julia Volaufova**, Ph.D., and George Bray, M.D.: Pioglitazone Increases Adipose Tissue Adiponectin mRNA and Plasma Adiponectin. *American Diabetes Association 63rd Scientific Session*. 2003
 17. Julie Martin, MS, Dwight E Matthews, PhD, Zhong Wang, MD, Xian Zhang, Julia Volaufova, PhD, and William T Cefalu, MD. Effect of Chromium Picolinate on Body Composition, Insulin Sensitivity, and Glycemic Control in Subjects with Type 2 Diabetes. *American Diabetes Association 65th Scientific Sessions*. **January 2005**.

Presentations:

1. **Volaufova, J.:** On Variances of Two-stage Estimators in Mixed Linear Models. Seventh International Workshop on Matrices and Statistics in Celebration of T.W. Anderson's 80th Birthday. Fort Lauderdale, Florida: December 11 - 14, 1998.
2. **Volaufova, J.:** Selected topics on power analysis; Statistical issues exemplified in the NASA Pilot phase and Bedrest phase. Workshop on Statistical Methods and Data Management Using the NASA Project. PBRC, November 1998.
3. **Volaufova, J.:** On interval estimation of noncentrality parameters. International Conference on Statistics: Reflections on the past and visions on the future. International conference in honor of Professor C.R. Rao at the occasion of his 80th birthday. San Antonio, Texas, March 16 - 19, 2000.
4. **Volaufova, J.:** Estimation of noncentrality parameters. Spring meeting of the Louisiana Chapter of ASA, Lafayette, April 28, 2000.
5. **Volaufova, J.:** On Estimation problems in two-stage linear models. Fall meeting of the Louisiana Chapter of ASA, Baton Rouge, December 1, 2000.
6. **Volaufova J, Redmann, S., and LaMotte LR.** Is Logistic regression the best for binomial response? The Fourth International Conference PROBASTAT 2002, Smolenice, Slovak Republic, . February 4-8, 2002.
7. **Volaufova, J.:** Heteroscedastic Mixed Model Approach to Methods Comparison. 24th European Meeting of Statisticians 2002, 14th Prague Conference on Information Theory, Statistical Decision Functions and Random Processes. Prague, Czech republic, August 19-23, 2002.
8. **Volaufova, J.:** Two-way heteroscedastic mixed model for methods comparisons. Eleventh International Workshop on Matrices and Statistics 2002. In Celebration of George P.H. Styan's 65th Birthday. Lyngby, Denmark, August 29-31. 2002.
9. **Volaufova, J.** Statistical Methods in Biomedical Research and Measurement Science. Presentation at a colloquium at the Division of Biostatistics, Washington University, St. Louis, September 2005.
10. **Volaufova, J.** Statistical Issues in Medical and Biomedical Environment. COBRE Faculty Development Presentation, March 8, 2006. LSUHSC MEB.
11. **Volaufova, J.** Variable selection issues in generalized linear models. Contributed paper at the Fifteenth international workshop on matrices and statistics, Uppsala, Sweden, June 13 – 17, 2006.
12. **Volaufova, J.** Approximate tests of fixed effects parameters in repeated measures design models. Presentation at the International conference PROBASTAT 2006, Smolenice, Slovakia, June 5 – 9, 2006.
13. **Volaufova, J.** Comparisons of approximate fixed effects tests in linear models with variance-covariance components. Presentation at the minisymposium on Linear Algebra in Statistics at the International Linear Algebra Society Conference, Amsterdam, The Netherlands, July 18-21, 2006.

Technical Reports:

A list of technical reports issued at the Institute of Measurement Science is available on request.

SERVICE:

Committee Assignments:

International:

1. Member of the organizing committee of the International Conference ProbaStat '91, Bratislava 1991.
2. Chairman of the organizing committee of The International Workshop Statistical Analysis and Design, Bratislava 1992;
3. Chairman of local organizing committee of the international conference MEASUREMENT '93, Smolenice 1993;
4. Chairman of the local organizing committee of the 2nd International conference on probability and mathematical statistics ProbaStat'94, held in Smolenice from May 30 – June 3, 1994.
5. Member of the international program committee for Probastat 2006, to be held in Smolenice Castle, June 5 – 9, 2006.

Local:

1. Elected Vice President of the Louisiana Chapter of the ASA - April 28, 2000 - April 20, 2001
2. Elected President of the Louisiana Chapter of the ASA - April 20, 2001 – May 3, 2002.
3. Elected Secretary-treasurer of the Louisiana Chapter of the ASA – May 3, 2002 – June 2003

Other

1. Department of Experimental Statistics, LSU, program review meeting. February 15, 2002.
2. Ph.D. Comprehensive Examination committee member for Barbora Arendacka. Institute of Measurement Science, Slovak Academy of Sciences, Bratislava, Slovakia. **May 2005.**

Institutional:

1. PBRC - Management Committee member - Fall 1999 - Summer 2000
2. PBRC - Data management committee - Spring 2000 – June 2004

Grant Reviewing:

1. Grant proposal # 201/00/0885 proposed by Jaroslav Michalek, Ph.D. to the Grant Agency of the Czech Republic. August 1999.

Mathematical Editorial Boards:

1. Co-editor of the Proceedings PROBASTAT'91 (together with A. Pázman).
2. Associate Editor of Acta Mathematica Universitatis Comenianae, since 1992.

Ad hoc Manuscript Reviewer:

1. Abdul-Hussein Saber Al-Mouel: Optimal Procedures for Nested Repeated Measures Models. For *Linear Algebra and Its Applications*. September 2002.
2. Andrew L. Rukhin: Two Procedures of Meta-Analysis in Clinical Trials and Interlaboratory Studies. For *Tatra Mountains Mathematical Publications*. September 2002.
3. Stulajter, F. and Witkovsky, V.: Estimation of variances in orthogonal FDSLRLMs. For *Metrika*. December 2002.
4. Stulajter, F.: MSE of the empirical BLUP in an orthogonal FDSLRL model. For *Metrika*. June 2005.
5. Kubacek, L.: Problems of an additional experiment. For *Mathematica Slovaca*. August 2005
6. Tucek, P. Marek, J.: The velocity of the river flow. For *Tatra Mountains Mathematical Publications*. October 2006.
7. Harville, D. Accounting for the estimation of variances and covariances in prediction under a general linear model: an overview. For *Tatra Mountains Mathematical Publications*. September 2006.
8. Rivero, C, Valdes, T.: Analysis of panel data models with grouped observations. For *Tatra Mountains Mathematical Publications*. December 2006.
9. Stulajter, F.: Comparison of predictors of time series in orthogonal regression models. For *Tatra Mountains Mathematical Publications*. February 2007.
10. Zezula, I.: Remarks on sum-of-profiles. For *Tatra Mountains Mathematical Publications*. October 2006
11. Klein, D., Zezula, I.: Two special variance structures in the growth curve model..For *Tatra Mountains Mathematical Publications*. December 2006.

Consultant position:

1. Statistical consultant in a class action suit, Gailor litigation. Contact person: B. J. "Jeanne" Davis. Taylor, Porter, Brooks & Phillips L.L.P. September 2003.

Teaching Experience:

- **Estimation Theory** taught at the Faculty of Mathematics and Physics, Comenius University Bratislava, 4th year students, 2 semesters. During the academic years 1988/89, 1989/90, 1990/91, and 1991/92.
- **Introduction to Stochastic Methods**, taught at the Faculty of Electrical Engineering of the Slovak Technical University, Ph.D. students, during the academic years 1990/91, 1991/92.
- **Mathematical Statistics**, taught at the Faculty of Civil Engineering of the Slovak Technical University, Ph.D. students, during the years 1991/92, 1992/93.
- **Linear Models**, taught at the Faculty of Mechanical Engineering of the Slovak Technical University, Ph.D. students, during the academic year 1991/92.
- **Theory of General Linear Models** in the Biometry program at the Dept. of Biometry and Genetics, LSU Medical Center, Fall semester 1994.

Graduate courses in probability and mathematical statistics, including introductory and intermediate stochastic methods for engineers at the Slovak Technical University Bratislava:

- **Biostatistics for Research Scientists**, lecture series given at Pennington Biomedical Research Center, Feb.- July, 1995.
- **Introductory Statistical Methods** for graduate students, Dept. of Experimental Statistics, LSU, Fall semester 1995, Spring semester 1996, and Fall semester 1996.
- **Biostatistical Methods**, Department of Experimental Statistics, LSU, Spring semester 1996.
- **Mixed Models**, regular weekly educational seminar for graduate students, research associates, and faculty, held at PBRC. November 1997 – June 2004
- **Introduction to Probability (BIOS6223)** graduate course in the Master of Science in Biometry program, LSUHSC – Fall 2004 –
- **Introduction to Statistical Inference (BIOS6224)** graduate course in the MS in Biometry program, LSUHSC - Spring 2005 -

Supervising students in Master of Applied Statistics program, LSU. Supervising Ph.D. students in probability and statistics, Bratislava.

Supervising students in Master of Biometry program, LSUHSC, School of Public Health.:

Michelle Finch, graduation June 2006

Christine Wei, graduation June 2006.