

Anastasia Ivanova

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Education

Ph.D. in Statistics, 1998

University of Maryland Baltimore County

Dissertation Advisor: Professor W. F. Rosenberger

Dissertation title: A Birth and Death Urn for Randomized Clinical Trials

Ph.D. in Mathematics, 1992

St. Petersburg State University, St. Petersburg, Russia

Dissertation Advisor: Professor S. M. Ermakov

Dissertation title: Stochastic Stability of Algorithms when Solving Partial Differential Equations with the Monte Carlo Method

M.S. in Mathematics, 1988

St. Petersburg State University, St. Petersburg, Russia

Professional Experience

Professor

Department of Biostatistics, University of North Carolina at Chapel Hill

2018 – Present

Associate Professor

Department of Biostatistics, University of North Carolina at Chapel Hill

2006 – 2018

Member

Lineberger Comprehensive Cancer Center, University of North Carolina at Chapel Hill

2001 – Present

Assistant Professor

Department of Biostatistics, University of North Carolina at Chapel Hill

1999 - 2006

Assistant Professor

Department of Epidemiology and Biostatistics, Case Western Reserve University

Cleveland, OH

1998 – 1999

Biostatistician

Lombardi Cancer Center, Georgetown University, Washington, DC
1998 – 1998

Statistician Intern

Food and Drug Administration, Center of Biologics Evaluation and Research
1997 - 1998

Honors and Awards

2020 Elected ASA Fellow
2018 Inducted into Delta Omega Chapter, the Honorary Public Health Society, as a faculty member
2006 – 2007 Stanley S. Schor scholarship from Merck Research Laboratories to work on Adaptive Designs
2003 – 2008 Fellowship, Cecil G. Sheps Center for Health Services Research, University of North Carolina at Chapel Hill, Chapel Hill
1983 – 1988 Honor student scholarship, Department of Mathematics, St. Petersburg State University, St. Petersburg, Russia

Membership

American Statistical Association (ASA)

Principal Investigator on Grants/Contracts

(Dollar amount is total obligated for award period listed. If funding is for a component (subcontract, project, core, etc.) dollar amount is for the component only, not the entire project.)

U24 AR076730 9/23/19 6/30/25
National Institute of Arthritis and Musculoskeletal and Skin Diseases \$51,781,000.00
Back Pain Consortium (BACPAC) Research Program Data Integration, Algorithm Development and Operations Management Center (DAC)
Role: Co - Principal Investigator

U24 HL138998 9/23/17 6/30/23
National Heart, Lung and Blood Institute \$60,789,024.00
Data, Modeling, and Coordinating Center for PrecISE Network
Role: Principal Investigator

U01 DK074059 8/09/10 6/30/16
National Institute of Diabetes and Digestive and Kidney Diseases \$2,876,273.00
Randomized Intervention for Children with Vesicoureteral Reflux (RIVUR)
Role: Subcontract Principal Investigator 2014-2015, 2019

R01 DK078045 3/1/14 2/28/15

Children's Hospital of Philadelphia \$29,590.00
Risk Factors for Renal Scarring in Children After Urinary Tract Infection (CUTIE)
 Role: Subcontract Principal Investigator 2014-2015

U01 DK061700 2/1/12 1/31/13
 National Institute of Diabetes and Digestive and Kidney Diseases \$527,991.00
**Folic Acid for Vascular Outcome Reduction in Transplantation (FAVORIT) -
 Coordinating Center**
 Role: Subcontract Principal Investigator 2014

1 R01 CA120082-01 9/26/06 07/31/09
 National Cancer Institute
Current Design Issues in Oncology Trials \$410,931
 Role: Principal Investigator

Bibliography

Peer-reviewed publications, Statistical Methods

+ student co-author

1. Hoberman⁺, S., **Ivanova, A.** (2022). The properties of entropy as a measure of randomness in a clinical trial. *Journal of Statistical Planning and Inference*, 216, 182-193, <https://doi.org/10.1016/j.jspi.2021.05.009>.
2. Saha⁺, P., Fine, J.P., **Ivanova, A.** (2021). Consistency of the CRM when the dose-toxicity curve is not monotone and its application to POCRM. *Statistics in Medicine*, 40(8) 2073-2082.
3. Li, X., **Ivanova, A.**, Tian, H., Lim, P., and Liu, K. (2020). Continual reassessment method with regularization in Phase I clinical trials. *Journal of Biopharmaceutical Statistics* 30(6) 964-978.
4. **Ivanova, A.**, Israel, E., LaVange, L., Peters, M., Denlinger, L.C., Moore, W.C., Bacharier, L.B., Marquis, M.A., Gotman, N.M., Kosorok, M.R., Tomlinson, C., Mauger, D.T., Georas, S.N., Wright, R.J., Noel, P., Rosner, G.L., Akuthota, P., Billheimer, D., Bleecker, E.R., Cardet, J.C., Castro, M., DiMango, E.A., Erzurum, S.C., Fahy, J.V., Fajt, M.L., Gaston, B.M., Holguin, F., Jain, S., Kenyon, N.J., Krishnan, J.A., Kraft, M., Kumar, R., Liu, M.C., Ly, N.P., Moy, J.N., Phipatanakul, W., Ross, K., Smith, L.J., Szeffler, S.J., Teague, W.G., Wechsler, M.E., Wenzel, S.E., White, S.R. (2020). The Precision Intervention in Severe and/or Exacerbation Prone Asthma (PrecISE) adaptive platform trial: statistical considerations. *Journal of Biopharmaceutical Statistics* 30(6) 1026-1037.

5. Joshi⁺, N., Nguyen⁺, C., **Ivanova, A.** (2020). Multi-stage adaptive enrichment trial design with subgroup estimation. *Journal of Biopharmaceutical Statistics* 30(6) 1038-1049.
6. Chang⁺, Y., Song⁺, T., Monaco, J., **Ivanova, A.** (2020). Futility stopping in clinical trials, optimality and practical consideration. *Journal of Biopharmaceutical Statistics* 30(6) 1050-1059.
7. **Ivanova, A.**, Qaqish, B. (2020). Power calculations for the sequential parallel comparison design with continuous outcomes. *Journal of Biopharmaceutical Statistics* 30(6) 1121-1129.
8. Wiener⁺, L.E., **Ivanova, A.**, Koch, G. (2020). Methods for clarifying criteria for study continuation at interim analysis. *Pharmaceutical Statistics* 19(5), 720-732.
9. Wiener⁺, L.E., **Ivanova, A.**, Li⁺, S., Silverman⁺, R., Koch, G. (2019). Randomization-based analysis of covariance for inference in the sequential parallel comparison design. *Journal of Biopharmaceutical Statistics* 29(4), 696-713.
10. Joshi⁺, N., Fine, J., Chu, R., **Ivanova, A.** (2019). Estimating the subgroup and testing for treatment effect in a post-hoc analysis of a clinical trial with a biomarker. *Journal of Biopharmaceutical Statistics* 29(4), 685-695. PMC6677135
11. Xue⁺, X., Foster, M., **Ivanova, A.** (2019). Rapid enrollment design for finding the optimal dose in immunotherapy trials with ordered groups. *Journal of Biopharmaceutical Statistics* 29(4), 625-634.
12. Bayar, M.A., **Ivanova, A.**, LeTeuff, G. (2019). CRM2dim: A SAS macro to implement the dual-agent continual reassessment method. *Computer Methods and Programs in Biomedicine* 176, 211-223. PMC6579114
13. Silverman⁺, R., **Ivanova, A.**, Fine, J., Zink, R. (2019). Permutation and bootstrap tests for sequential parallel comparison design. *Statistics in Biopharmaceutical Research* 11, 44-51.
14. Silverman⁺, R.K., **Ivanova, A.**, Fine, J. (2018). Sequential parallel comparison design with binary and time to event outcomes. *Statistics in Medicine*, 37(9), 1454-1466.
15. Chung⁺, Y., **Ivanova, A.**, Hudgens, M., Fine, J. (2018). Partial likelihood estimation of isotonic proportional hazards models. *Biometrika*, 105(1), 133-148. PMC5969539
16. Silverman⁺, R.K., **Ivanova, A.** (2017). Sequential parallel comparison design with sample size re-estimation. *Journal of Biopharmaceutical Statistics*, 27(3), 416-425.
17. Chiuzan, C., Shtaynberger, J., Manji, G.A., Duong, J.K., Schwartz, G.K., **Ivanova, A.**, Lee, S.M. (2017). Dose-finding designs for trials of molecularly targeted agents and immunotherapies. *Journal of Biopharmaceutical Statistics*, 27(3), 477-494. PMC5383533
18. Jia, X., **Ivanova, A.**, Lee, S.M. (2017). Selection of the initial design for the two-stage continual reassessment method. *Journal of Biopharmaceutical Statistics*, 27(3), 495-506. PMC5383510
19. Parke, T., Marchenko, O., Anisimov, V., **Ivanova, A.**, Jennison, C., Perevozskaya, I., Song⁺, G. (2017). Comparing oncology clinical programs by use of innovative designs and expected net present value optimization: which adaptive approach leads to the best result? *Journal of Biopharmaceutical Statistics*, 27(3), 457-476. PMC5383527

20. **Ivanova, A.**, Wang⁺, A., Foster, M. (2016). The rapid enrollment design for Phase I clinical trials. *Statistics in Medicine*, 35(15), 2516-2524. PMC6791120
21. **Ivanova, A.**, Zhang, Z., Thompson, L., Yang, Y., Kotz, R.M., Fang, X. (2016). Can sequential parallel comparison design and two-way enriched design be useful in medical device clinical trials? *Journal of Biopharmaceutical Statistics*, 26(1), 167-177.
22. **Ivanova, A.** Paul, B., Marchenko, O., Song⁺, G., Patel⁺, N., Moschos, S.J. (2016). Nine-year change in statistical design, profile, and success rates of phase II oncology trials. *Journal of Biopharmaceutical Statistics*, 26(1), 141-149.
23. Wages, N., **Ivanova, A.**, Marchenko, O. (2016). Statistical methods for drug combination oncology Phase I studies. *Journal of Biopharmaceutical Statistics*, 26(1), 150-166.
24. **Ivanova, A.**, Deal, A. (2016). Two-stage design for phase II oncology trials with relaxed futility stopping. *Statistics and Its Interface*, 9(1), 93-98.
25. **Ivanova, A.**, Anderson, K.M., Rosner, G.L., Rubin, E. (2015). Commentary on “Current Statistical Challenges in Oncology Clinical Trials in the Era of Targeted Therapy” by R Sridhara, K He, L Nie, YL Shen and S Tang, *Statistics in Biopharmaceutical Research*, 7(4), 357-358.
26. **Ivanova, A.**, Tamura, R.N. (2015). A two-way enriched clinical trial design: combining advantages of placebo lead-in and randomized withdrawal. *Statistical Methods in Medical Research*, 24(6), 871-890.
27. Wang⁺, Y., **Ivanova, A.** (2015). Dose-finding with continuous outcome in Phase I oncology trials. *Pharmaceutical Statistics*, 14, 102-107.
28. Song⁺, G., **Ivanova, A.** (2015). Enrollment and stopping rules for managing toxicity requiring long follow-up in Phase II oncology trials. *Journal of Biopharmaceutical Statistics*, 25(6), 1206-1214. PMC4689581
29. **Ivanova, A.**, Song⁺, G., Marchenko, O., Moschos, S. (2015). Monitoring rules for toxicity in Phase II oncology trials. *Clinical Investigation*, 5(4), 373-381.
30. **Ivanova, A.**, Hoberman⁺, S. (2015). Higher order response adaptive urn designs for clinical trials with highly successful treatments. *JRSS C*, 64, 175-189.
31. Wang⁺, J.J., **Ivanova, A.** (2014). Dose finding with the sequential parallel comparison design. *Journal of Biopharmaceutical Statistics*, 24(5), 1091-1101.
32. Farnan⁺, L., **Ivanova, A.**, Peddada, S. (2014). Linear mixed effects models under inequality constraints with applications. *PLOS ONE*, 9(1), e84778, doi:10.1371/journal.pone.0084778.
33. **Ivanova, A.**, Rosner, G.L., Marchenko, O., Parke, T., Perevozskaya, I., Wang, Y. (2014). Advances in statistical approaches in oncology drug development. *Therapeutic Innovation and Regulatory Science*, 48, 81-89.
34. Baer, L., **Ivanova, A.** (2013). When should the sequential parallel comparison design be used in clinical trials? *Clinical Investigation*, 3, 832-833.
35. **Ivanova, A.**, Xiao⁺, C. (2013). Dose-finding when the target dose is on a plateau of a dose-response curve. *Pharmaceutical Statistics*, 12, 309-314.
36. **Ivanova, A.** Monaco, J, Stinchcombe, T. (2012). Efficient designs for phase II oncology trials with ordinal outcome. *Statistics and Its Interface*, 5, 463-469.
37. **Ivanova, A.**, Xiao⁺, C., Tymofeyev, Y. (2012). Two-stage designs for Phase 2 dose-

- finding trials. *Statistics in Medicine*, 31, 2872-2881. PMC4090751
38. Xiao⁺, C., **Ivanova, A.** (2012). Adaptive isotonic estimation of the minimum effective and peak doses in presence of covariates. *Journal of Statistical Planning and Inference*, 142, 1899-1907. PMC3375738
 39. **Ivanova, A.**, Qaqish, B.F., Schoenfeld, D. (2011). Optimality, sample size and power calculations for the sequential parallel comparison design. *Statistics in Medicine*, 30, 2793-2803.
 40. **Ivanova, A.**, Liu, K., Snyder, E., Snavely, D. (2009). An adaptive design for identifying the dose with the best efficacy/tolerability profile with application to a crossover dose-finding study. *Statistics in Medicine*, 28, 2941-2951. PMC2772210
 41. **Ivanova, A.**, Murphy, M. (2009). An adaptive first in man dose-escalation study of NGX267: Statistical, clinical, and operational considerations. *Journal of Biopharmaceutical Statistics*, 19, 247-255.
 42. **Ivanova, A.**, Flournoy, N. (2009). Comparison of isotonic designs for dose-finding. *Statistics in Biopharmaceutical Research*, 1, 101-107. PMC2821065
 43. **Ivanova, A.**, Kim⁺, S. (2009). Dose-finding for binary ordinal and continuous outcomes with monotone objective function: a unified approach. *Biometrics*, 65, 307-315. PMC2819822.
 44. Zohar, S., Lian, Q., Levy, V., Cheung, K., **Ivanova, A.**, Chevret, S. (2008). Quality assessment of phase I dose-finding cancer trials: Proposal of a checklist. *Clinical Trials*, 5, 478-486. PMC2819819.
 45. **Ivanova, A.**, Bolognese, J., Perevozskaya, I. (2008). Adaptive design based on t -statistic for dose-response trials. *Statistics in Medicine*, 27, 1581-1592. PMC2825484
 46. Salama, I., **Ivanova, A.**, Qaqish, B.F. (2008). Efficient generation of constrained block allocation sequences. *Statistics in Medicine*, 27, 1421-1428.
 47. **Ivanova, A.**, Flournoy, N., Chung⁺, Y. (2007). Cumulative cohort design for dose-finding. *Journal of Statistical Planning and Inference*, 137, 2316-2317.
 48. **Ivanova, A.** (2006). Escalation, up-and-down and A+B designs for dose-finding trials. *Statistics in Medicine*, 25, 3668-3678.
 49. Qaqish, B.F., **Ivanova, A.** (2006). Multivariate logistic models. *Biometrika*, 93, 4, 1011-1017.
 50. **Ivanova, A.**, Wang⁺, K. (2006). Bivariate isotonic design for dose-finding with ordered groups. *Statistics in Medicine*, 25, 2018-2026.
 51. **Ivanova, A.** (2006). Urn designs with immigration: useful connection with continuous time stochastic processes. *Journal of Statistical Planning and Inference*, 136, 1836-1844.
 52. **Ivanova, A.**, Biswas, A., Lurie, A. (2006). Response adaptive designs for continuous outcomes. *Journal of Statistical Planning and Inference*, 136, 1845-1852.
 53. Coad, S., **Ivanova, A.** (2005). Sequential adaptive urn designs with elimination for comparing $K > 2$ treatments. *Statistics in Medicine*, 24, 1995-2009.
 54. Coad, S., **Ivanova, A.** (2005). The use of triangular test with response-adaptive treatment allocation. *Statistics in Medicine*, 24, 1483-1493.
 55. **Ivanova, A.**, Barrier⁺, R., Berger, V.W. (2005). Adjusting for observable selection bias in block randomized trials. *Statistics in Medicine*, 24, 1537-1546.
 56. **Ivanova, A.**, Qaqish, B.F., Schell, M.J. (2005). Continuous toxicity monitoring in phase

- I trials in oncology. *Biometrics*, 61, 540-545.
57. Wang⁺, K., **Ivanova, A.** (2005). Two-dimensional dose finding in discrete dose space. *Biometrics*, 61, 217-222.
 58. Berger, V.W., Zhou, Y., **Ivanova, A.**, Tremmel, L. (2004). Adjusting for ordinal covariates by inducing a partial ordering. *Biometrical Journal*, 46, 48-55.
 59. **Ivanova, A.**, Wang⁺, K. (2004). A nonparametric approach to the design and analysis of two-dimensional dose-finding trials. *Statistics in Medicine*, 23, 1861-1870.
 60. **Ivanova, A.** (2003). A new dose-finding design for bivariate outcomes. *Biometrics*, 59, 1003-1009.
 61. **Ivanova, A.** (2003). A play-the-winner-type urn design with reduced variability. *Metrika*, 58, 1-13.
 62. **Ivanova, A.**, Haghighi, A.M., Mohanti, S.G., Durham, S.D. (2003). Improved up-and-down designs for phase I trials. *Statistics in Medicine*, 22, 69-82.
 63. Berger, V.W., **Ivanova, A.**, Knoll, M. (2003). Minimizing predictability while retaining balance through the use of less restrictive randomization procedures. *Statistics in Medicine*, 22, 3017-3028.
 64. Berger, V.W., **Ivanova, A.** (2002). Adaptive test for ordered categorical data. *Journal of Modern Applied Statistical Methods*, 1, 269-280.
 65. Berger, V.W., **Ivanova, A.** (2002). The bias of linear rank tests when testing for stochastic order in ordered categorical data. *Journal of Statistical Planning and Inference*, 107, 237-247.
 66. Coad, D.S., **Ivanova, A.** (2001). Bias calculations for adaptive designs. *Sequential Analysis*, 20, 91-116.
 67. **Ivanova, A.**, Berger, V.W. (2001). Drawbacks of integer scoring of ordered categorical data. *Biometrics*, 57, 567-570.
 68. **Ivanova, A.**, Flournoy, N. (2001). A birth and death urn for ternary outcomes: Stochastic processes applied to urn models. In *Probability and Statistical Models with Applications*. (Charalambides, C.A., Koutras, M.V., Balakrishnan, N., eds.), Chapman and Hall/CRC, Boca Raton, 583-600.
 69. **Ivanova, A.**, Rosenberger, W.F. (2001). Adaptive designs for clinical trials with highly successful treatments. *Drug Information Journal*, 35, 1087-1093.
 70. Rosenberger, W.F., Stallard, N., **Ivanova, A.**, Harper, C., Ricks, M. (2001). Optimal adaptive designs for binary response trials. *Biometrics*, 57, 833-837.
 71. **Ivanova, A.**, Rosenberger, W.F. (2000). A Comparison of urn designs for randomized clinical trials of $K > 2$ treatments. *Journal of Biopharmaceutical Statistics*, 10, 1, 93-107.
 72. **Ivanova, A.**, Rosenberger, W.F., Durham S.D. Flournoy, N. (2000). A birth and death urn for randomized clinical trials. *Sankhya B*, 62, 104-118.
 73. Berger, V.W., Permutt, T., **Ivanova, A.** (1998). The convex hull test for ordered categorical data. *Biometrics*, 54, 1541-1550.
 74. Ermakov, S.M., **Ivanova, A.** (1991). Stochastic stability of difference schemes. *Vestnik, Mathematics Series*, 24, 1, 36-40.
 75. Barabanov, A.E., **Ivanova, A.** (1991). Minimax control of a discrete object with mixed perturbations. *Automation and Remote Control*, 54, 4, 2-11.
 76. Barabanov, A.E., **Ivanova, A.** (1990). Minimax control of a nonminimally phased object

with combination perturbations. *Vestnik, Mathematics Series*, 23, 1, 10-15.

⁺student co-author

Peer-reviewed publications, Public Health and Medicine

77. Ziedner, J. Phase II study of immune checkpoint blockade with pembrolizumab after high dose cytarabine in relapsed/refractory acute myeloid leukemia (AML). *Blood Cancer Discovery* in press.
78. Trembath, D.G., **Ivanova, A.**, Krauze, M.T., Kirkwood, J.M., Nikolaishvilli-Feinberg, N., Moschos, S.J. (2021). Melanoma-specific expression of the tumor suppressor proteins p16 and PTEN is a favorable prognostic factor in established melanoma brain metastases. *Melanoma Research* 31(3): 264-267.
79. Israel, E., Denlinger, L.C., Bacharier, L.B., LaVange, L.M., Moore, W.C., Peters, M.C., Georas, S.N., Wright, R.J., Mauger, D.T., Noel, P., Akuthota, P., Bach, J., Bleecker, E.R., Cardet, J.C., Carr, T.F., Castro, M., Cinelli, A., Comhair, S.A., Covar, R.A., Crotty-Alexander, A., DiMango, E.A., Erzurum, A.C., Fahy, J.V., Fajt, M.L., Gaston, B.M., Hoffman, E.C., Holguin, F., Jackson, D.J., Jain, D., Jarjour, N.N., Ji, Y., Kenyon, N.J., Kosorok, M.R., Kraft, M., Krishnan, J.A., Kumar, R., Liu, A.H., Liu, M.C., Ly, N.P., Marquis, A., Martinez, F.D., Moy, J.N., O'Neal, W.K., Ortega, V.E., Peden, D.B., Phipatanakul, W., Ross, K., Smith, L.J., Szeffler, S.J., Teague, W.G., Tulchinsky, A.F., Vijayanand, P., Wechsler, M.E., Wenzel, S.E., White, S.R., Zeki, A.A., **Ivanova, A.** (2021). PrecISE: Precision Medicine in Severe Asthma, an adaptive platform trial with biomarker ascertainment. *Journal of Allergy and Clinical Immunology*
80. Foster, M.C., Savoldo, B., Lau, W., Rubinos, C.A., Grover, N., Armistead, P.M., Coghill, J.M., Hagan, R.S., Morrison, J.K., Cheng, C., Laing, S., **Ivanova, A.**, West, J., Foster, A., Serody, J., Dotti, G. (2021). Utility of Safety Switch to Abrogate CD19.CAR T Cell-Associated Neurotoxicity. *Blood*
81. Voorhees, T., Ghosh, N., Grover, N., Block, J., Cheng, C., Morrison, K., **Ivanova, A.**, Dotti, G., Serody, J., Savoldo, B., and Beaven, A. (2020). Long term remission in multiple relapsed enteropathy associated T-cell lymphoma following CD30 CAR-T cell therapy. *Blood Advances* 4(23): 5925–5928.
82. Ramos, C.A., Grover, N.S., Beaven, A.W., Lulla, P.D., Wu, M.F., **Ivanova, A.**, Wang, T., Shea, T.C., Rooney, C.M., Dittus, C., Park, S.I., Gee, A.P., Eldridge, P.W., McKay, K.L., Mehta, B., Cheng, C.J., Buchanan, F.B., Grilley, B.J., Morrison, K., Brenner, M.K., Serody, J.S., Dotti, G., Heslop, H.E., Savoldo, B. (2020). Anti-CD30 CAR-T cell therapy in relapsed and refractory Hodgkin lymphoma. *Journal of Clinical Oncology* 38 (32), 3794-3804.
83. Liu, Y., Lyu, J., Burdett, K.B., Sibley, A.B., Hatch, A.J., Starr, M.D., Brady, J.C., Hammond, K., Marmorino, F., Rossini, D., Goldberg, R.M., Falcone, A. Cremolini, A., Owzar, K., **Ivanova, A.**, Moore, D.T., Lee, M.S., Sanoff, H.K., Innocenti, F., Nixon, A.B. (2020). Prognostic and predictive biomarkers in metastatic colorectal cancer patients receiving regorafenib. *Molecular Cancer Therapeutics* 19, 2146–54.
84. Tucker, K., Staley, S.A., Gehrig, P.A., Soper, J.T., Boggess, J.F., **Ivanova, A.**, Rossi, E. (2020). Defining the learning curve for successful staging with sentinel lymph node

- biopsy for endometrial cancer among surgeons at an academic institution. *International Journal of Gynecological Cancer* 30(3):346-351.
85. Nadkarni, M.D., Mattoo, T.K., Gravens-Mueller, L., Carpenter, M.A., **Ivanova, A.**, Moxey-Mims, M., Greenfield, S.P., Mathews, R. (2020). Laboratory findings in children with vesicoureteral reflux treated with antimicrobial prophylaxis. *Clinical Pediatrics* 59(3):259-265.
 86. Shaikh, N., Rajakumar, V., Peterson, C., Gorski, J., **Ivanova, A.**, Gravens-Muller, L., Miyashita, Y., Smith, K., Mattoo, T., Pohl, H., Mathews, R., Greenfield, S., Docimo, S., Hoberman, A. (2020). Cost-utility of Antimicrobial Prophylaxis for Treatment of Children with Vesicoureteral Reflux. *Frontiers in Pediatrics, section Pediatric Urology* 7, article 530.
 87. Karachaliou, G.S., Ayvali, F., Collichio, F.A., Lee, C.B., **Ivanova, A.**, Ollila, D.W., Moschos, S.J. (2020). Chemotherapy following PD1 inhibitor blockade in patients with unresectable stage III/stage IV metastatic melanoma: a single academic institution experience. *Oncology* 98(3):174-178.
 88. Copeland, A., Foster, M.C., Muluneh, B., Xenakis, J.G., **Ivanova, A.**, Frankfurt, O., Clayton, M., Black, A., Rapchak, B., Wehbie, R.S. (2019). The utility of a telemedicine platform to monitor adherence and adverse effects of tyrosine kinase inhibitors. *Leukemia and Lymphoma*, 60(7):1842-1844.
 89. Davis, J. M., **Ivanova, A.**, Chung, Y., Shaw, J. R., Rao, K. V., Ptachcinski, J. R., Sharf, A. A., Serody, J. S., Armistead, P. M., Wood, W. A., Coghill, J. M., Jamieson, K. J., Vincent, B. G., Riches, M. L., Shea, T. C., and Alexander, M. D. (2019). Evaluation of a test-dose strategy for pharmacokinetically-guided busulfan dosing for hematopoietic stem cell transplant. *Biology of Blood and Marrow Transplantation*, 25(2), 391-397.
 90. Herfarth, H., Barnes, E. L., Valentine, J. F., Hanson, J., Higgins, P. DR., Isaacs, K. L., Jackson, S., Osterman, M. T., Anton, K., **Ivanova, A.**, Long, M. D., Martin, C., Sandler, R. S., Abraham, B., Cross, R. K., Dryden, G., Fischer, M., Harlan, W., Levy, C., McCabe, R., Polyak, S., Saha, S., Williams, E., Yajnik, V., Serrano, J., Sands, B. E. and Lewis, J. D. (2018). Methotrexate Is Not Superior to Placebo in Maintaining Steroid-Free Response or Remission in Ulcerative Colitis. *Gastroenterology*, 155(4), 1098-1108.e9.
 91. Bostom, A., Pasch, A., Madsen, T., Roberts, M., Franceschini, N., Steubl, D., Garimella, P., Ix, J., Tuttle, K., **Ivanova, A.**, Shireman, T., Gohh, R., Merhi, B., Jarolim, P., Kusek, J., Pfeffer, M., Liu, S., Eaton, C. (2018). Serum calcification propensity and fetuin-A: biomarkers of cardiovascular disease in long-term kidney transplant recipients. *American Journal of Nephrology* 48(1), 21-31.
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- Rudisill, M.A., Miller, J.A., Clark, S., Yogarajah, M., **Ivanova, A.**, Auten, J., Coombs, C.C, Jamieson, K.K., VanDeventer, H., Foster, M.C., Zeidner, J.F. Retrospective analysis of the addition of cladribine to cytarabine and daunorubicin (7+3) in newly diagnosed adverse-risk acute myeloid leukemia. *Journal of Oncology Pharmacy Practice*, submitted.

Foster, M, Woods et al. Phase Ib trial of lenalidomide as post-remission therapy for older adults with acute myeloid leukemia: safety and longitudinal assessment of geriatric functional domains, submitted

Saha[†], P., Fine, J.P., **Ivanova, A.** Model-based dose-finding for single- and multi-agent immunotherapy trials, submitted

Voorhees, T., ..., **Ivanova, A.**,..., Grover, N. Pre-therapy metabolic tumor volume associates with response to CD30 CAR T cells in Hodgkin lymphoma *Blood Advances*, submitted

Asher, G. A Phase I evaluation of the effect of curcumin on dose-limiting toxicity and pharmacokinetics of irinotecan in participants with solid tumors, submitted

Articles in Russian

Ivanova, A. (1992). Stochastic stability of algorithms with discrete time. In *The Monte Carlo Methods in Computational Mathematics*, 66-70. (In Russian)

Ivanova, A. (1991). Stochastic stability of algorithms when solving partial differential equations with the Monte Carlo method. *Publications of St. Petersburg State University*. (In Russian)

Ivanova, A., Sushkov, Y.A. (1990). Multi-state systems with binary-polar functional elements. *Computational Cybernetics*, **25**, 38-42. (In Russian)

Software

<http://cancer.unc.edu/biostatistics/program/ivanova/>

Easy to use software for Phase II oncology trials, including continuous boundary for toxicity monitoring, Simon's and Fleming's two-stage designs, two-stage design with relaxed stopping for futility and two-stage design for ordinal outcomes.

This website receives 60 unique visits per day on average which amounts to 22000 unique visits annually.

Teaching

Graduate Courses Taught

Design and Analysis of Clinical Trials (jointly with L. LaVange 2007-2010)	Fall 2007, 2008, 2009, 2010, 2012, 2014 (41 students), 2016 (22 students), 2018 (30 students)
Probability and Statistical Inference I	Fall 2000, 2002, 2003, 2004, 2005, 2011, 2013, 2015 (25 students), 2017 (32 students), 2019 (38 students), 2020 (40 students)
Nonparametric Statistics (Case Western Reserve)	Spring 1999

Student Supervision

Student Name	Year Graduated	Degree	Short Title
Lang Li	ongoing	PhD	Bayesian methods for clinical trials
Yen Chang	ongoing	PhD	Sequential stopping in clinical trials

Beibo Zhao	ongoing	PhD	Subgroup estimation with multiple outcomes
Pooja Saha	2020	PhD	Dose-finding design for immunotherapy trials
Tianhao Song	2020	MS	Optimal futility stopping in two-stage trials
Camille Liu	2020	MS	Applying the CompEx algorithm to data
Yixiao Dong	2020	MS	Dose-finding designs for virology trials
Yen Chang	2019	MS	Futility stopping in clinical trials
Neha Joshi	2019	PhD	Clinical trials with adaptive enrichment
Xiaoqiang Xue	2019	DrPH	Models for enrollment in clinical trials
Julie Dorais	2018	MS	Models for longitudinal and event time data
Rachel Silverman (jointly with J Fine)	2017	PhD	Clinical trial with enrichment by response
Beibo Zhao	2017	MS	Methods for pharmacovigilance
Yunro Chung (jointly with J Fine)	2016	PhD	Order restricted inference with continuous covariate
Steven Hoberman (jointly with M Kosorok)	2014	PhD	Response adaptive designs and entropy
Yunfei Wang (jointly with E Lange)	2014	DrPH	Dose-finding with delayed outcome
Jonela Rogers	2013	BSURE	5-year change in Phase II oncology trials
Neerali Patel	2013	BSURE	Current Phase I oncology trials
Gouchen Song	2013	DrPH	Sequential designs with delayed outcome
Krishna Chotneeru	2013	MPH	Methods for high placebo response
Jessie Wang	2013	MS	Multi-arm trials when placebo response is high
Benjamin Gellman	2011	BSURE	Methods for triple-blind Phase I trials
Laura Lapkauskaite (jointly with S Peddada)	2011	PhD	Order restricted estimation and testing with correlated data
Changfu Xiao	2011	PhD	Adaptive designs for Phase II trials
Yufan Zhao	2007	MS	Dose-finding for umbrella dose-response
Se Hee Kim	2007	MS	Optimal allocation to find PEAK dose
Shenghua Mao	2006	MS	Improving dose selection trials
Yeounsung Chung	2005	MS	Zoom-in designs for dose-finding
Nathan Carter	2004	MS	Escalation designs
Kai Wang	2003	PhD	Bayesian two-dimensional dose-finding
Robert Barrier	2002	MS	Adjusting for selection bias

Doctoral Dissertation Committee Member

Student Name	Year Graduated	Department
M. Polinkovsky	ongoing	Biostatistics
Beth Weiner	2019	Biostatistics
Jing Yu	2019	Biostatistics
Siyang Li	2017	Biostatistics
Jung In Kim	2017	Biostatistics
Hengrui Sun	2016	Biostatistics
Byeongyeob Choi	2016	Biostatistics
Natnaee Aimyong	2014	Biostatistics

Kelley Wekheye	2014	Biostatistics
Emily Colby	2012	Biostatistics
Michael Hussey	2012	Biostatistics
Lily Wang	2004	Biostatistics
Szu-Yun Leu	2003	Biostatistics
Michael Klotsman	2003	Epidemiology
Dora Ilyasova	2001	Epidemiology

Student Funded on my Projects (with Ivanova as Principle Investigator)

Student Name	Years Funded	Project
Yue Jiang	2017-2019	PrecISE
Chalmer Tomlinson	2019-2020	PrecISE
Tianhao Song	2021-present	PrecISE

Service

UNC Academic Committees

School or University-wide committees

SPH Appointments, Promotions, and Tenure, 2019 – present

SPH UCRF-SPH student award, 2016 - present

SPH Conflict of Interest Committee/Research Council, school-wide committee, 2016 – 2020

SPH Advisory Committee for Diversity Programs and Recruitment, 2012 – 2019

SPH Task Force on Scientific Review of IRB Applications, University-wide, 2013 – 2014

Departmental level committees

Communications committee (chair), 2014 – 2021

Diversity committee, 2016 – 2019

Social committee, 2008 – 2016

Examination committee, 2000 – present

Biostatistics Summer Undergraduate Research and Education (BSURE) program committee (chair), 2008 – 2014

Search committee, Department of Biostatistics, 2001, 2011, 2014

New MPH program at St. Petersburg State University, Russia (Fogarty), 2004 – 2005.

Stochastic Processes Course Committee, Department of Statistics and the Department of Biostatistics, 1999

Other committees

Protocol Review Committee, Lineberger Cancer Center, University of North Carolina at Chapel Hill, 1999 – present

Search committee, Lineberger Cancer Center, 2004, 2006, 2007, 2008, 2009, 2011, 2012, 2014.

Academic Data and Safety Monitoring Board Service

Member, Data and Safety Monitoring Committee, Lineberger Cancer Center, University of North Carolina at Chapel Hill, 1999 – present

Member, Hematology Data and Safety Monitoring Board, National Institutes of Health, National Heart Lung and Blood Institute, 2007 – present

Editorial Service

Associate Editor, *Statistics in Medicine*, 2006 – present

Associate Editor, *Biometrics*, July 1, 2011 – December 31, 2013

Guest Associate Editor for the special Gary Koch Festschrift Issue of *Statistics in Biopharmaceutical Research*, 2011

Guest Editor for the special Trends and Innovations in Clinical Trial Statistics (*TICTS*) Issue of *Journal of Biopharmaceutical Statistics*, 2016

Guest Editor for the special Duke Industry Statistics Symposium (DISS) Issue of *Journal of Biopharmaceutical Statistics*, 2018

Guest Editor for the special DISS Issue of *Journal of Biopharmaceutical Statistics*, 2020

Other Service

ASA Deming Lectureship Committee, Chair, 2019 - present

ASA Biopharmaceutical Section working group on Clinical Trial Designs with Re-randomization, Chair (and founder), 2016 – 2018

NC ASA chapter President, 2016

NC ASA chapter Vice President, 2015

Steering committee for 2014, 2015 and 2016 FDA/Industry Statistics Workshop

The academic advisor to Oncology subgroup under the Drug Information Association (DIA) Adaptive Designs Scientific Working Group, 2013 – 2018

The academic advisor to Cytel's Dose Finding Consortium, 2012 – 2018

Referee (selected list)

Annals of Statistics; Biometrika; Biometrics; Biostatistics; Journal of the Royal Statistical Society B; Journal of the American Statistical Association; Journal of Biopharmaceutical Statistics; Journal of Clinical Oncology; Journal of Statistical Planning and Inference; Statistics and Probability Letters; Statistics in Medicine.

Presentations**Invited Presentations (presented or coauthored)**

Ivanova, A. Precision Interventions for Severe and/or Exacerbation-Prone Asthma (PrecISE), DISS, virtual, April 2021.

Ivanova, A., LaVange, L. Precision Interventions for Severe and/or Exacerbation-Prone Asthma (PrecISE) trial design. DIA, Washington DC, October 2019.

Ivanova, A. Subgroup estimation in clinical trials. mODa 12, Smolenice, Slovakia, June 2019.

Ivanova, A., Xue, X. Dose-finding designs for immunotherapy trials. DISS, Durham, NC, April 2019.

Ivanova, A. Sequential parallel comparison design for trials with high placebo response. NYU, NY, April 2019.

Ivanova, A., Wages, N. Modern Methods in Phase I and II Oncology Trials, a half-day course. DISS, Durham, NC, September 2017.

Ivanova, A. Solving clinical trial problems by using novel designs. DISS, Durham, NC, September 2017.

- Ivanova, A. Rapid enrollment design for Phase I trials in oncology. 2nd Symposium on Early-phase Trial Design Methodology, Charlottesville, VA, April 2017.
- Ivanova, A. Sequential Parallel Comparison Design for trials with high placebo response: overview and case studies. SCT Webinar, June 2016.
- Ivanova, A. Sequential Parallel Comparison Design for trials with high placebo response: overview and case studies. Department of Biostatistics Seminar series, Columbia University. New York NY, May 2016.
- Ivanova, A. Enrichment by response: Sequential Parallel Comparison Design (SPCD), overview and case studies. The 2nd Trends and Innovations in Clinical Trial Statistics conference. Durham NC, May 2016.
- Ivanova, A. Statistical analysis of SPCD data. FDA-Industry meeting on SPCD. Silver Spring, MD, March 2016.
- Ivanova, A. Sequential Parallel Comparison Design for trials with high placebo response: related statistical methodology and case studies. FDA, Silver Spring, MD, July 2015.
- Ivanova, A. Sequential Parallel Comparison Design for trials with high placebo response. Design and Analysis of Experiments in Healthcare. Cambridge, UK, July 2015.
- Ivanova, A. Designing a Phase 2 major depressive disorder trial to select the best design for a pivotal trial. Society for Clinical Trials meeting. Arlington VA, May 2015.
- Ivanova, A. Sequential Parallel Comparison Design for dose finding. Symposium on Dose Finding Methodology. Paris, France, April 2015.
- Ivanova, A. Solving clinical trials problems with novel design approaches. Discussant. ENAR. Miami FL, March 2015.
- Ivanova, A. Rapid enrollment design for Phase I oncology trials. Fourth Workshop on Adaptive Early-Phase Clinical Trial Designs. Charleston SC, October 2014.
- Ivanova, A. Recent developments in Phase I and II oncology trials. 2014 FDA/Industry Workshop. Washington DC, September 2014.
- Ivanova, A. Phase I designs for Phase I oncology trials. Short Course, Trends and Innovations in Clinical Trial Statistics, Durham, NC, April 2014.
- Ivanova, A. End point selection in Phase II oncology trials. Trends and Innovations in Clinical Trial Statistics, Durham, NC, April 2014.
- Ivanova, A. Statistical methods in medical research. Short Course, Gastroenterology Congress, Moscow, Russia, March 2014.
- Ivanova, A. Innovative dose-finding methods for Phase I oncology trials. FDA, Oncology, Silver Spring, MD, September 2013.
- Dragalin, V., Ivanova, A. Enrichment strategies in adaptive clinical trials: theory and implementation. Short course, 2013 FDA/Industry Workshop. Washington DC, September 2013.
- Ivanova, A. Sample size considerations for the sequential parallel comparisons design. 2013 FDA/Industry Workshop. Washington DC, September 2013.
- Ivanova, A. Treatment selection with the sequential parallel comparison design. Fourth International Workshop in Sequential Methodologies. Athens GA, July 2013.
- Ivanova, A. Adaptive dose-finding: from audiometry to sleep apnea. ICSA/ ISBS joint statistical conference. Bethesda MD, June 2013.
- Ivanova, A. Designs for trials with high placebo response. Society for Clinical Trials meeting.

- Boston MA, May 2013.
- Ivanova, A. Designs for trials with high placebo response. Department of Biostatistics, Johns Hopkins University. Baltimore MD, April 2013.
- Ivanova, A. Adaptive two-stage trials with multiple treatment arms. COMPASS Consortium meeting. Philadelphia PA, April 2013.
- Ivanova, A. Comparing strategies for trials with high placebo response. ENAR. Orlando FL, March 2013.
- Ivanova, A. Learning with a two-stage design with multiple arms: adaptive and manageable. DIA/Industry Workshop. Bethesda MD, October 2012.
- Ivanova, A. High placebo response, crossover, placebo lead-in and randomized discontinuation designs. NC TraCS Biostatistics Seminar Series for Clinical and Translational Science Investigators. UNC September 2012.
- Ivanova, A. Comparing designs for trials with high placebo response 2012 FDA/Industry Workshop. Washington DC, September 2012.
- Ivanova, A., Miller, E., Gallo, P. Recent Adaptive Designs in Phase 2 and Phase 3: Theory and Implementation Short course, 2012 FDA/Industry Workshop. Washington DC, September 2012.
- Ivanova, A. Comparing Strategies for Trials with High Placebo Response. Biopharmaceutical Section Web-based Training Series, August 2012.
- Ivanova, A. Sample size re-estimation in Phase III trials. Quintiles, Durham NC, July 2012.
- Ivanova, A. Beyond the 3+3 design: methods for Phase I and II oncology trials. Quintiles, Durham NC, May 2012.
- Tamura, R., Ivanova, A. A doubly enriched clinical trial design merging placebo lead-in and randomized withdrawal, ENAR, Washington DC April 2012.
- Ivanova, A. Adaptive Two-Stage Designs for Multi-Arm Trials. BASS XVIII, Savannah GA, November 2011.
- Ivanova, A. Adaptive dose-finding in first-in-man: case study. 2011 FDA/Industry Workshop. Washington DC, September 2011.
- Ivanova, A. Beyond the 3+3 design: novel methods for oncology trials. University of Alabama Comprehensive Cancer Center, Birmingham AL, June 2011.
- Ivanova, A. Adaptive designs for dose-finding trials. Duke University, December 2010.
- Ivanova, A. Can we use the CRM in Phase 2 trials? GlaxoSmithKline, October 2010.
- Ivanova, A. The CRM: pros, cons and misconceptions. FDA, Oncology, Silver Spring, MD, September 2010.
- Ivanova, A. Lymph node identification study: can we do better with optimal design? MODA9, Bertrino, Italy, June 2010.
- Ivanova, A. Adaptive Dose Finding. The 4th Annual Probability and Statistics Day. UMBC, Baltimore, MD April 2010.
- Ivanova, A. Dose finding in phase 2 trials. UK Medical Research Council Workshop on Dose-Finding Methodology in Early Phase Clinical Trials. Reading, UK, March 2010.
- Ivanova, A. Innovative dose finding designs. 60th anniversary of the Department of Biostatistics, UNC Chapel Hill. Chapel Hill NC, October 2009.
- Liu, K., Ivanova, A., Snyder, E., Snavely, D., Entsuah, R. Case Study: An Adaptive Design that Uses a Utility Function to Identify the Best Dose in a Crossover Setting. ASA

- Biopharmaceutical /FDA Industry Workshop, Washington DC, September 2009.
- Ivanova, A. Adaptive dose finding in non-life threatening diseases. JSM. Washington DC, August 2009.
- Ivanova, A. Design and estimation in dose-ranging studies 6-th St Petersburg Workshop on Simulation, St. Petersburg, Russia, July 2009.
- Ivanova, A. Adaptive dose finding. The second International Workshop in Sequential Methodologies, Troyes, France, June 2009.
- Ivanova, A. Finding the dose with the best efficacy/tolerability profile. ENAR. San Antonio, TX, March 2009.
- Ivanova, A. An Adaptive Design for Identifying the Dose with the Best Efficacy/Tolerability Profile. Department of Statistics, George Mason University. Fairfax, VA, February 2009.
- Ivanova, A. Dose-finding adaptive trials. Society of Clinical Trials annual meeting. St. Louis, May 2008.
- Liu, K., Ivanova, A., Snyder, E., Snavely, D. A Three-Period Crossover Adaptive Dose Design. Third Annual Adaptive Designs for Clinical Development. London, United Kingdom, May 2008.
- Ivanova, A. Adaptive designs for dose-finding trials. Tutorial.. The 63rd annual Deming Conference on applied statistics. Atlantic City, December 2007.
- Ivanova, A. Dose-finding for umbrella dose-response. Merck Research Laboratories. Philadelphia, September 2007.
- Ivanova, A. Dose-finding designs for Phase II A studies. GlaxoSmithKline Biostatistics Annual Conference. Philadelphia, September 2007.
- Ivanova, A. Dose-finding based on t-statistic. Merck Research Laboratories. Rahway, September 2007.
- Ivanova, A. Investigation of up-and-down strategies for isotonic dose-finding. MODA8, Spain, June 2007.
- Ivanova, A. Adaptive designs for dose-selection trials. Merck Research Laboratories. Rahway, February 2007.
- Ivanova, A. Dose-finding in oncology. GlaxoSmithKline. Cary, May 2007.
- Ivanova, A. Adaptive dose selection trials. Adaptive Designs For Clinical Development Summit, Germany, March 2007.
- Ivanova, A. Unified approach to treatment assignment in dose-finding trials CBI's 1st Forum on Dose Finding Studies, Philadelphia, February 2007.
- Ivanova, A. Non-parametric dose-finding designs: recent developments and examples. GlaxoSmithKline Biostatistics Annual Conference. Cary, November 2006.
- Ivanova, A., Qaqish, B., Schell, M. Continuous toxicity monitoring in phase I trials in oncology. Georgetown University, Washington DC, March 2006.
- Ivanova, A. Aspects of teaching Biostatistics. How to teach Epidemiology, Prevention and Biostatistics in an MPH program, Saint Petersburg State University, Saint Petersburg, Russia, May 2005.
- Ivanova, A. Dose-finding in life-threatening diseases: non-parametric methods. Designing and analyzing dose response clinical trials, Philadelphia, PA, November 2004.
- Ivanova, A. Analysis of primary and secondary outcomes in trials allowing stopping based on secondary outcomes. Understanding applying and not misusing statistical techniques,

- Gaithersburg, MD, October 2004.
- Ivanova, A., Qaqish, B., Schell, M. Continuous toxicity monitoring in phase II trials in oncology. UMBC, Baltimore, MD, October 2004.
- Ivanova, A. Response-adaptive designs: ethics and efficiency of estimation. Workshop on Adaptive designs, Fields Institute, Toronto, September 2003.
- Berger, V., Zhou, J., Ivanova, A., Tremmel, L. Exact adjustment for ordinal covariates in randomized trials using partial orderings. ENAR, Tampa, FL, March 2003.
- Coad, S., Ivanova, A. Sequential adaptive urn designs with elimination for comparing several treatments. Meeting on Response Adaptive Clinical Trials, Sandwich, UK, November 2002.
- Rosenberger, W.F., Stallard, N., Ivanova, A. Optimal adaptive designs for binary response trials. Department of Biostatistics, UCLA, January 2002.
- Rosenberger, W.F., Stallard, N., Ivanova, A. Optimal adaptive designs for binary response trials. Department of Statistics, University of California, Santa Barbara, February 2002.
- Barrier, R., Ivanova, A. Selection bias in adaptive clinical trials. Joint Statistical Meeting, Atlanta, GA, August 2001.
- Berger, V., Ivanova, A. An alternative to the complete randomized block procedure. Joint Statistical Meeting, Atlanta, GA, August 2001.
- Ivanova, A. Designing an epidemiologic study. HIV and AIDS Epidemiology Meeting. St. Petersburg, May 2001.
- Rosenberger, W.F., Stallard, N., Ivanova, A. Optimal adaptive designs for binary response trials. SmithKline Beecham, Philadelphia, PA March 2001.
- Rosenberger, W.F., Stallard, N., Ivanova, A. Optimal adaptive designs for binary response trials. Department of Statistics, University of South Carolina, November 2001.
- Rosenberger, W.F., Stallard, N., Ivanova, A. Optimal adaptive designs for binary response trials. The EMMES Corporation, Rockville, MD, November 2001.
- Ivanova, A. Drop-the-loser rule in medical trials. University of Maryland, Baltimore, MD, October 2000.
- Ivanova, A., Berger, V.W. Adaptive tests for ordinal categorical data. NCI, Bethesda, MD, October 2000.
- Ivanova, A. Drop-the-loser rule in medical trials. University of Georgia, Athens, GA, March 2000.
- Ivanova, A. Drop-the-loser rule in medical trials. Columbia University, New York, NY, February 2000.
- Rosenberger, W.F., Stallard, N., Ivanova, A. Optimal adaptive designs for binary response trials. PhRMA/FDA Workshop, Washington DC, October 2000.
- Ivanova, A. Drop-the-loser rule in medical trials. UNC at Chapel Hill, Chapel Hill, NC, October 1999.
- Ivanova, A., Berger, V.W. Adaptive tests for ordinal data. The 1999 CCF-CWRU-OSU Statistics Symposium, Cleveland, OH, May 1999.
- Berger, V.W., Ivanova, A. The conditional t-test of stochastic order is biased and least stringent for the product multinomial distribution. International Chinese Statistical Association (ICSA) Meeting, New Brunswick, NJ, May 1997.

Other Presentations (prior to 2006)

- Coad, S., Ivanova, A. The use of triangular test with response-adaptive treatment allocation. 55th Session of the International Statistical Institute, Sydney, Australia, April 2005.
- Wang, K., Ivanova, A. Bayesian designs for two-dimensional phase I trials. JSM, San Francisco, CA, August 2003.
- Ivanova, A. New approach to dose-finding studies. Infectious Diseases Conference, UNC at Chapel Hill, July 2003 (invited as CFAR development grant recipient).
- Wang, K., Ivanova, A. Designs for phase I trials with two agents. ENAR, Tampa, FL, March 2003.
- Berger, V., Ivanova, A. Enhancing allocation concealment through less restrictive randomization procedures. ENAR, Charlotte, NC, March 2001.
- Ivanova A., Berger V.W. Adaptive tests for ordinal categorical data. Joint Statistical Meeting, Baltimore, MD, August 1999.
- Melki, S.A., Safar, A., Martin J., Ivanova A., Adi, M. Potential acuity pinhole: A simple method to measure potential visual acuity in patients with cataracts, comparison to PAM. Meeting of the American Academy of Ophthalmology, New Orleans, November 1998.
- Ivanova, A., Durham, S. A birth and death urn for randomized clinical trials. Joint Statistical Meeting, Dallas, TX, August 1998.
- Ivanova, A. A birth and death urn for randomized clinical trials. St. Petersburg Workshop on Simulation, St. Petersburg, Russia, June 1998.
- Ivanova, A., Rosenberger, W.F. A birth and death urn for randomized clinical trials. Mid-Atlantic Probability and Statistics Day, Baltimore, MD, October 1997.
- Ivanova, A., Rosenberger, W.F. A birth and death urn for randomized clinical trials. Graduate Student Research Day, Baltimore, MD, April 1997.
- Ivanova, A. Stability of algorithms when solving partial differential equations with the Monte Carlo method, Mid-Atlantic Probability and Statistics Day, Baltimore, MD, October 1996.