

Abhijit Dasgupta

STATISTICIAN/DATA SCIENTIST

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Summary

I am an expert statistician and data scientist interested in multidisciplinary collaborations to understand and solve problems using modern data analytic tools and techniques. I work at the interface of statistics and machine learning, and have extensive experience (SME) in statistical methods, study design, machine learning and data visualization. I am an expert in using R and Python for data analytics and data science applied to a wide variety of disciplines, with over 20 years experience. I am an excellent communicator and teacher who can explain technical details well to a non-technical audience. I am also interested in the mentoring, education and training of the next generation of data scientists.

Education and Training

Indian Statistical Institute

B.STAT.(HONS.)

Kolkata, India

1993

University of Washington

M.S. IN STATISTICS

Seattle, WA

1995

University of Washington

PH.D. IN BIOSTATISTICS

Seattle, WA

2001

National Cancer Institute

POST-DOCTORAL TRAINING

Bethesda, MD

2001-2006

- Genetic epidemiology, statistical genetics, bioinformatics

Current Positions

PRIMARY

AstraZeneca

PRINCIPAL DATA SCIENTIST

Gaithersburg, MD

2020–

- Biostatistics and machine learning collaboration across therapeutic areas in oncology
- Survival analysis, machine learning, real world evidence, software as a medical device

Georgetown University

ADJUNCT PROFESSOR

Washington DC

2020–

- Big Data and Cloud Computing (ANLY 502)
- Data visualization (ANLY 503)

OTHER

ARAASTAT

DIRECTOR AND CHIEF DATA SCIENTIST

Germantown, MD

2009–

- Statistics and Data Science consultant
- Statistical and predictive analytics, data visualization
- R and Python training for Data Science and Machine Learning
- Grant writing

Department of Bioinformatics and Data Science, FAES Graduate School at NIH

CO-CHAIRMAN

Bethesda, MD

2018–

- Oversee the data science and bioinformatics curriculum
- Teach high-demand classes on R (Practical R, and Data Visualization using R) and Python (Data Visualization using Python)

Zansors

CHIEF DATA SCIENTIST AND CO-FOUNDER

Arlington, VA

2011–

- Lead technical efforts in R&D, product development
- Algorithms, signal processing, analytics, data visualization
- Work with engineers, app developers, UI/UX experts, business leaders

Work History

National Institute for Arthritis, Musculoskeletal and Skin Diseases, NIH

Bethesda, MD

BIostatistician (CONTRACTOR WITH KELLY GOVERNMENT SERVICES)

2010-2020

- Statistical and Machine Learning analyses with applications in Rheumatology
- Computational statistics, Bayesian methods, machine learning, simulation, survival analysis, regression, visualization
- Clinical trials, large administrative databases (Medicare, NIS, NHANES)

Tranzxn, LLC

Gaithersburg, MD

DIRECTOR, MACHINE LEARNING

2009-2012

- Developing models for predicting hospital acquired conditions

Division of Biostatistics, Thomas Jefferson University

Philadelphia, PA

ASSISTANT PROFESSOR

2006-2009

- Biostatistics, Bioinformatics, Oncology
- Supported the Kimmel Cancer Center

Recent Teaching

I am a Carpentries-certified instructor with extensive experience teaching data science using R and Python to a wide variety of corporate, government and academic audiences. My classes have included programming neophytes as well as experienced analysts looking to enhance their skills. Workshop and training clients include Freddie Mac, the State Department and Brookings Institute. I regularly teach R classes at NIH.

2021	Data Visualization using Python , FAES, NIH
2019 – present	Data Visualization using R , FAES, NIH
2019	Programming with R , Foreign Service Institute, Department of State <i>3-day workshops introducing R in an Excel-dominant environment</i>
2018 – present	Carpentries Workshops , NIH and other locations <i>both R- and Python-based</i>
2018	SQL for Programmers , Brookings Institute
2017	Best Practices in Data Analysis , Joint Statistical Meetings, Baltimore <i>This is a continuing education course. I received all A's on my evaluations</i>
2017	Machine Learning using Python , Freddie Mac <i>This is a 32-hour corporate training program covering the background, theory, usage and implementation of several machine learning methods</i>
2016 – present	Practical R , FAES, NIH <i>Introductory R course</i>

Professional Service

1. Member, NIH SBIR review committees related to neurobiology
2. Member, Data Safety Monitoring Boards, National Institute of Mental Health, NIH
3. Reviewer for various academic journals.

Professional Memberships

1. American Statistical Association

Community Leadership

- 2018-2019 **Board of Directors**, Sanskriti, Inc.
A socio-cultural organization supporting the Bengali community in Montgomery County and the greater DC area
- 2013-2016 **Board of Directors**, Data Community DC
- 2011 – **Co-organizer**, Statistical Programming DC
Originally the DC R Users Group, this meetup brings together the DC data science community to share and discuss data science implementations in R and Python

Publications

PH.D. THESIS

1. **Dasgupta, A** (2001). "Parametric Identifiability and related problems". PhD thesis. University of Washington.

BOOKS

1. Tattar, P, T Ojeda, SP Murphy, B Bengfort, and **A Dasgupta** (June 30, 2017). *Practical Data Science Cookbook, Second Edition*. Packt Publishing.
2. Ojeda, T, SP Murphy, **A Dasgupta**, and B Bengfort (2014). *Practical Data Science Cookbook*. Packt Publishing.

ARTICLES

1. Ward, MM and **A Dasgupta** (2020). Regional Variation in Rates of Total Knee Arthroplasty Among Medicare Beneficiaries. *JAMA Network Open* **3**(4), e203717–e203717. PMID: 32343352.
2. Swayambunathan, J, **A Dasgupta**, and T Bhattacharyya (2020). The Pronounced Impact of Hip Fractures on Psychosocial Well-being. *JAAOS-Journal of the American Academy of Orthopaedic Surgeons* **29**(1), e22–e30. PMID: 32657971.
3. Swayambunathan, J, **A Dasgupta**, PS Rosenberg, MT Hannan, DP Kiel, and T Bhattacharyya (2020). Incidence of hip fracture over 4 decades in the Framingham Heart Study. *JAMA Internal Medicine* **180**(9), 1225–1231. PMID: 32730556.
4. Ward, MM and **A Dasgupta** (2020). Pre-operative withholding of infliximab and the risk of infections after major surgery in patients with rheumatoid arthritis. *Rheumatology* **59**(12), 3917–3926. PMID: 32710102.
5. Agunbiade, A, **A Dasgupta**, and MM Ward (Jan. 2020). Racial/Ethnic Differences in Dialysis Discontinuation and Survival after Hospitalization for Serious Conditions among Patients on Maintenance Dialysis. *Journal of the American Society of Nephrology* **31**(1) (1), 149–160. PMID: 31836625. eprint: <https://jasn.asnjournals.org/content/31/1/149>.
6. Newcomer, D, P LaPuma, RC Brandys, A Northcross, and **A Dasgupta** (2019). Measuring Airflow through the PHEAF Device to Assess Reliability of Instrument and Sample Location. *Journal of the Air & Waste Management Association* **69**(6), 734–742. PMID: 30698506.
7. Tektonidou, MG, **A Dasgupta**, and MM Ward (Oct. 2019). Interhospital variation in mortality among patients with systemic lupus erythematosus and sepsis in the USA. *Rheumatology* **58** (10). Published online, 1794–1801. PMID: 31323667.
8. **Dasgupta, A** and MM Ward (Nov. 2019). Translating treatment effects between rheumatoid arthritis activity measures and ACR responses in direct comparison trials. *Arthritis Care & Research* **71** (11), 1482–1487. PMID: 30629334.
9. Tan, S, **A Dasgupta**, JA Flynn, and MM Ward (July 2019). Aortic-vertebral interaction in ankylosing spondylitis: syndesmo-phyte development at the juxta-aortic vertebral rim. *Annals of the Rheumatic Diseases* **78**(7) (7), 922–928. PMID: 30954970.
10. Jha, S, N Laucis, L Kim, A Malayeri, **A Dasgupta**, GZ Papadakis, A Karantanas, M Torres, and T Bhattacharyya (Dec. 2018). CT analysis of anatomical distribution of melorheostosis challenges the sclerotome hypothesis. *Bone* **117**, 31–36. PMID: 30218789.
11. Jha, S, N Fratzl-Zelman, P Roschger, GZ Papadakis, EW Cowen, H Kang, TJ Lehky, K Alter, Z Deng, A Ivovic, L Flynn, JC Reynolds, **A Dasgupta**, M Miettinen, E Lange, J Katz, K Kaushofer, JC Marini, RM Siegel, and T Bhattacharyya (Sept. 2018). Distinct Clinical and Pathological Features of Melorheostosis Associated With Somatic MAP2K1 Mutations. *Journal of Bone and Mineral Research* **34**(1), 145–156. PMID: 30138550.
12. Ward, MM, LC Guthrie, MI Alba, and **A Dasgupta** (Apr. 2018). Origins of Discordant Responses among 3 Rheumatoid Arthritis Improvement Criteria. *The Journal of Rheumatology* **45**(6), 745–752. PMID: 29606667.
13. Wang, R, **A Dasgupta**, and MM Ward (Jan. 2018). Comparative Efficacy of Tumor Necrosis Factor- α Inhibitors in Ankylosing Spondylitis: A Systematic Review and Bayesian Network Metaanalysis. *The Journal of Rheumatology* **45**(4), 481–490. PMID: 29335342.
14. Ward, MM, LC Guthrie, and **A Dasgupta** (Feb. 2017). Direct and Indirect Determinants of the Patient Global Assessment in Rheumatoid Arthritis: Differences by Level of Disease Activity. *Arthritis Care & Research* **69**(3) (3), 323–329. PMID: 27273981.
15. Tektonidou, MG, LB Lewandowski, J Hu, **A Dasgupta**, and MM Ward (Aug. 2017). Survival in adults and children with systemic lupus erythematosus: a systematic review and Bayesian meta-analysis of studies from 1950 to 2016. *Annals of the Rheumatic Diseases* **76**(12), 2009–2016. PMID: 28794077.
16. Ward, MM, **A Dasgupta**, and M Tektonidou (2017). Reply. *Arthritis & rheumatology (Hoboken, N.J.)* PMID: 28376290.

17. Wasko, MC, **A Dasgupta**, G Ilse Sears, JF Fries, and MM Ward (May 2016). Prednisone use and risk of mortality in patients with rheumatoid arthritis: Moderation by use of disease-modifying anti-rheumatic drugs. *Arthritis Care & Research* **68**(5), 706–10. PMID: 26415107.
18. Tektonidou, MG, **A Dasgupta**, and MM Ward (June 2016). Risk of End-Stage Renal Disease in Patients With Lupus Nephritis, 1971-2015: A Systematic Review and Bayesian Meta-Analysis. *Arthritis & Rheumatology (Hoboken, N.J.)* **68** (6), 1432–1441. PMCID: PMC5071782. PMID: 26815601.
19. Szymczak, S, E Holzinger, **A Dasgupta**, JD Malley, AM Molloy, JL Mills, LC Brody, D Stambolian, and JE Bailey-Wilson (2016). r2VIM: A new variable selection method for random forests in genome-wide association studies. *BioData Mining* **9**, 7. PMCID: PMC4736152. PMID: 26839594.
20. Laucis, NC, M Chowdhury, **A Dasgupta**, and T Bhattacharyya (May 2016). Trend Toward High-Volume Hospitals and the Influence on Complications in Knee and Hip Arthroplasty. *The Journal of Bone And Joint Surgery. American Volume* **98** (9), 707–712. PMCID: PMC4850659. PMID: 27147682.
21. Tan, S, **A Dasgupta**, J Yao, JA Flynn, L Yao, and MM Ward (Nov. 2016). Spatial distribution of syndesmophytes along the vertebral rim in ankylosing spondylitis: preferential involvement of the posterolateral rim. *Annals of Rheumatic Disease* **75** (11), 1951–1957. PMCID: PMC5072453. PMID: 26797721.
22. Wang, R, **A Dasgupta**, and MM Ward (June 2016). Comparative efficacy of non-steroidal anti-inflammatory drugs in ankylosing spondylitis: a Bayesian network meta-analysis of clinical trials. *Annals of the Rheumatic Diseases* **75** (6), 1152–1160. PMID: 26248636.
23. Holzinger, ER, S Szymczak, **A Dasgupta**, J Malley, Q Li, and JE Bailey-Wilson (Nov. 2015). Variable selection method for the identification of epistatic models. *Pacific Symposium on Biocomputing. Pacific Symposium on Biocomputing*, 195–206. PMCID: PMC4299919. PMID: 25592581.
24. Tektonidou, MG, Z Wang, **A Dasgupta**, and MM Ward (Aug. 2015). Burden of Serious Infections in Adults With Systemic Lupus Erythematosus: A National Population-Based Study, 1996-2011. *Arthritis Care & Research* **67**, 1078–85. PMID: 25732901.
25. Ward, MM, **A Dasgupta**, and R Wang (Nov. 2015). Response to: 'Heterogeneity, consistency and model fit should be assessed in Bayesian network meta-analysis' by Wei et al. *Annals of the Rheumatic Diseases* **75**(1), e6. PMCID: PMC5075426. PMID: 26621484.
26. Chen, ZX et al. (July 2014). Comparative validation of the D. melanogaster modENCODE transcriptome annotation. *Genome Research* **24**, 1209–23. PMCID: PMC4162429. PMID: 24985915.
27. **Dasgupta, A**, S Szymczak, JH Moore, JE Bailey-Wilson, and JD Malley (2014). Risk estimation using probability machines. *BioData Mining* **7**, 2. PMCID: PMC4015350. PMID: 24581306.
28. Greenstein, D, R Kataria, P Gochman, **A Dasgupta**, JD Malley, J Rapoport, and N Gogtay (Sept. 2014). Looking for childhood-onset schizophrenia: diagnostic algorithms for classifying children and adolescents with psychosis. *Journal of Child and Adolescent Psychopharmacology* **24**, 366–73. PMCID: PMC4162429. PMID: 25019955.
29. Sansbury, B, **A Dasgupta**, L Guthrie, and M Ward (Apr. 2014). Time perspective and medication adherence among individuals with hypertension or diabetes mellitus. *Patient Education And Counseling* **95**, 104–10. PMCID: PMC3968538. PMID: 24480361.
30. Bethi, S, **A Dasgupta**, MH Weisman, TJ Learch, LS Gensler, JCJ Davis, JD Reveille, and MM Ward (Apr. 2013). Functional limitations due to axial and peripheral joint impairments in patients with ankylosing spondylitis: are focused measures more informative? *Arthritis Care & Research* **65**, 607–14. PMCID: PMC3567248. PMID: 23097327.
31. Malley, JD, **A Dasgupta**, and JH Moore (2013). The limits of p-values for biological data mining. *BioData Mining* **6**, 10. PMCID: PMC3668262. PMID: 23663551.
32. Wasko, MCM, **A Dasgupta**, H Hubert, JF Fries, and MM Ward (Feb. 2013). Propensity-adjusted association of methotrexate with overall survival in rheumatoid arthritis. *Arthritis and Rheumatism* **65**, 334–42. PMID: 23044791.
33. Malley, JD, J Kruppa, **A Dasgupta**, KG Malley, and A Ziegler (2012). Probability machines: consistent probability estimation using nonparametric learning machines. *Methods Of Information In Medicine* **51**, 74–81. PMCID: PMC3250568. PMID: 21915433.
34. Witkiewicz, AK, D Whitaker-Menezes, **A Dasgupta**, NJ Philp, Z Lin, R Gandara, S Sneddon, UE Martinez-Outschoorn, F Sotgia, and MP Lisanti (Mar. 2012). Using the "reverse Warburg effect" to identify high-risk breast cancer patients: stromal MCT4 predicts poor clinical outcome in triple-negative breast cancers. *Cell Cycle (Georgetown, Tex.)* **11**, 1108–17. PMID: 22313602.
35. **Dasgupta, A**, YV Sun, IR Konig, JE Bailey-Wilson, and JD Malley (2011). Brief review of regression-based and machine learning methods in genetic epidemiology: the Genetic Analysis Workshop 17 experience. *Genetic Epidemiology* **35 Suppl 1**, S5–11. PMCID: PMC3345521. PMID: 22128059.
36. Kim, Y, Q Li, CD Cropp, H Sung, J Cai, CL Simpson, B Perry, **A Dasgupta**, JD Malley, AF Wilson, and JE Bailey-Wilson (2011). Performance of random forests and logic regression methods using mini-exome sequence data. *BMC Proceedings* **5 Suppl 9**, S104. PMCID: PMC3287827. PMID: 22373484.
37. Tektonidou, MG, **A Dasgupta**, and MM Ward (Sept. 2011). Suicidal ideation among adults with arthritis: prevalence and subgroups at highest risk. Data from the 2007-2008 National Health and Nutrition Examination Survey. *Arthritis Care & Research* **63**, 1322–33. PMID: 21671421.

38. Bonita, RE, PW Raake, NJ Otis, JK Chuprun, T Spivack, **A Dasgupta**, DJ Whellan, PJ Mather, and WJ Koch (Feb. 2010). Dynamic changes in lymphocyte GRK2 levels in cardiac transplant patients: a biomarker for left ventricular function. *Clinical And Translational Science* **3**, 14–8. PMCID: PMC3040896. PMID: 20443948.
39. Gu, L, P Vogiatzi, M Puhr, A Dagvadorj, J Lutz, A Ryder, S Addya, P Fortina, C Cooper, B Leiby, **A Dasgupta**, T Hyslop, L Bubendorf, K Alanen, T Mirtti, and MT Nevalainen (June 2010). Stat5 promotes metastatic behavior of human prostate cancer cells in vitro and in vivo. *Endocrine-related cancer* **17**, 481–93. PMID: 20233708.
40. Lin, JE, P Li, AE Snook, S Schulz, **A Dasgupta**, TM Hyslop, AV Gibbons, G Marszlowicz, GM Pitari, and SA Waldman (Jan. 2010). The hormone receptor GUCY2C suppresses intestinal tumor formation by inhibiting AKT signaling. *Gastroenterology* **138**, 241–54. PMID: 19737566.
41. Toll, AD, **A Dasgupta**, M Potoczek, CJ Yeo, CG Kleer, JR Brody, and AK Witkiewicz (Sept. 2010). Implications of enhancer of zeste homologue 2 expression in pancreatic ductal adenocarcinoma. *Human Pathology* **41**, 1205–9. PMID: 20573371.
42. Williams, TK, CL Costantino, NA Bildzukewicz, NG Richards, DW Rittenhouse, L Einstein, JA Cozzitorto, JC Keen, **A Dasgupta**, M Gorospe, GE Gonye, CJ Yeo, AK Witkiewicz, and JR Brody (2010). pp32 (ANP32A) expression inhibits pancreatic cancer cell growth and induces gemcitabine resistance by disrupting HuR binding to mRNAs. *PloS One* **5**, e15455. PMID: 21152064.
43. Witkiewicz, AK, **A Dasgupta**, S Sammons, O Er, MB Potoczek, F Guiles, F Sotgia, JR Brody, EP Mitchell, and MP Lisanti (July 2010). Loss of stromal caveolin-1 expression predicts poor clinical outcome in triple negative and basal-like breast cancers. *Cancer Biology & Therapy* **10**, 135–43. PMID: 20431349.
44. Gu, L, A Dagvadorj, J Lutz, B Leiby, G Bonuccelli, MP Lisanti, S Addya, P Fortina, **A Dasgupta**, T Hyslop, L Bubendorf, and MT Nevalainen (Apr. 2010). Transcription factor Stat3 stimulates metastatic behavior of human prostate cancer cells in vivo, whereas Stat5b has a preferential role in the promotion of prostate cancer cell viability and tumor growth. *The American Journal Of Pathology* **176**, 1959–72. PMID: 20167868.
45. Costantino, CL, AK Witkiewicz, Y Kuwano, JA Cozzitorto, EP Kennedy, **A Dasgupta**, JC Keen, CJ Yeo, M Gorospe, and JR Brody (June 2009). The role of HuR in gemcitabine efficacy in pancreatic cancer: HuR Up-regulates the expression of the gemcitabine metabolizing enzyme deoxycytidine kinase. *Cancer Research* **69**, 4567–72. PMID: 19487279.
46. Mercier, I, KG Bryant, F Sotgia, G Bonuccelli, AK Witkiewicz, **A Dasgupta**, JF Jasmin, RG Pestell, and MP Lisanti (May 2009). Using Caveolin-1 epithelial immunostaining patterns to stratify human breast cancer patients and predict the Caveolin-1 (P132L) mutation. *Cell Cycle (Georgetown, Tex.)* **8**, 1396–401. PMID: 19342880.
47. Witkiewicz, AK, MC Casimiro, **A Dasgupta**, I Mercier, C Wang, G Bonuccelli, JF Jasmin, PG Frank, RG Pestell, CG Kleer, F Sotgia, and MP Lisanti (June 2009). Towards a new "stromal-based" classification system for human breast cancer prognosis and therapy. *Cell Cycle (Georgetown, Tex.)* **8**, 1654–8. PMID: 19448435.
48. Witkiewicz, AK, **A Dasgupta**, KH Nguyen, C Liu, AJ Kovatich, GF Schwartz, RG Pestell, F Sotgia, H Rui, and MP Lisanti (June 2009). Stromal caveolin-1 levels predict early DCIS progression to invasive breast cancer. *Cancer Biology & Therapy* **8**, 1071–9. PMID: 19502809.
49. Witkiewicz, AK, **A Dasgupta**, F Sotgia, I Mercier, RG Pestell, M Sabel, CG Kleer, JR Brody, and MP Lisanti (June 2009). An absence of stromal caveolin-1 expression predicts early tumor recurrence and poor clinical outcome in human breast cancers. *The American Journal Of Pathology* **174**, 2023–34. PMID: 19411448.
50. Malhotra, PS, P Sharma, MA Fishman, FL Grumbine, R Tholey, VQ Dam, **A Dasgupta**, E Pequignot, and TO Willcox (June 2009). Clinical, radiographic, and audiometric predictors in conservative management of vestibular schwannoma. *Otolology & neurotology : official publication of the American Otological Society, American Neurotology Society [and] European Academy of Otolology and Neurotology* **30** (4), 507–514. PMID: 19373122.
51. Barbarotto, E, P Secchiero, **A Dasgupta**, P Fortina, GA Calin, and T Hyslop (May 2008). MicroRNAs as new players in the genomic galaxy and disease puzzles. *Clinical And Translational Science* **1**, 50–6. PMID: 20443818.
52. Landi, MT, T Dracheva, M Rotunno, JD Figueroa, H Liu, **A Dasgupta**, FE Mann, J Fukuoka, M Hames, AW Bergen, SE Murphy, P Yang, AC Pesatori, D Consonni, PA Bertazzi, S Wacholder, JH Shih, NE Caporaso, and J Jen (2008). Gene expression signature of cigarette smoking and its role in lung adenocarcinoma development and survival. *PloS One* **3**, e1651. PMID: 18297132.
53. Marino, RJ, L Jones, S Kirshblum, J Tal, and A Dasgupta (2008). Reliability and repeatability of the motor and sensory examination of the international standards for neurological classification of spinal cord injury. *The Journal Of Spinal Cord Medicine* **31**, 166–70. PMCID: PMC2565479. PMID: 18581663.
54. Schwartz, GF, LS Krill, JP Palazzo, and **A Dasgupta** (Nov. 2008). Value of intraoperative examination of axillary sentinel nodes in carcinoma of the breast. *Journal of the American College of Surgeons* **207**, 758–62. PMID: 18954790.
55. Witkiewicz, AK, KH Nguyen, **A Dasgupta**, EP Kennedy, CJ Yeo, MP Lisanti, and JR Brody (Oct. 2008). Co-expression of fatty acid synthase and caveolin-1 in pancreatic ductal adenocarcinoma: implications for tumor progression and clinical outcome. *Cell Cycle (Georgetown, Tex.)* **7**, 3021–5. PMID: 18802406.
56. Pleger, ST, P Most, M Boucher, S Soltys, JK Chuprun, W Pleger, E Gao, **A Dasgupta**, G Rengo, A Remppis, HA Katus, AD Eckhart, JE Rabinowitz, and WJ Koch (May 2007). Stable myocardial-specific AAV6-S100A1 gene therapy results in chronic functional heart failure rescue. *Circulation* **115**, 2506–15. PMID: 17470693.

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58. Tang, Z, MA Diamond, JM Chen, TA Holly, RO Bonow, **A Dasgupta**, T Hyslop, A Purzycki, J Wagner, DM McNamara, T Kukulski, S Wos, EJ Velazquez, K Ardlie, and AM Feldman (Oct. 2007). Polymorphisms in adenosine receptor genes are associated with infarct size in patients with ischemic cardiomyopathy. *Clinical Pharmacology And Therapeutics* **82**, 435–40. PMID: 17728764.
59. Landi, M, T Dracheva, M Rotunno, J Shih, **A Dasgupta**, D Consonni, A Pesatori, J Figueroa, S Wacholder, P Bertazzi, et al. (2007). Gene expression signatures of cigarette smoking in tumor and normal lung tissue from EAGLE. *Cancer Research* **67**(9 Supplement), 2449–2449.
60. **Dasgupta, A**, SG Self, and SD Gupta (2007). Non-identifiable parametric probability models and reparametrization. *Journal of Statistical Planning and Inference* **137**(11), 3380–3393.
61. Parascandola, M, DL Weed, and **A Dasgupta** (2006). Two Surgeon General's reports on smoking and cancer: a historical investigation of the practice of causal inference. *Emerging Themes in Epidemiology* **3**, 1. PMCID: PMC1343554. PMID: 16403213.
62. Lleonart, ME, GD Kirk, S Villar, OA Lesi, **A Dasgupta**, JJ Goedert, M Mendy, MC Hollstein, R Montesano, JD Groopman, P Hainaut, and MD Friesen (Dec. 2005). Quantitative analysis of plasma TP53 249Ser-mutated DNA by electrospray ionization mass spectrometry. *Cancer Epidemiology, Biomarkers & Prevention* **14**, 2956–62. PMID: 16365016.
63. Schiffman, M, CM Wheeler, **A Dasgupta**, D Solomon, and PE Castle (Nov. 2005). A comparison of a prototype PCR assay and hybrid capture 2 for detection of carcinogenic human papillomavirus DNA in women with equivocal or mildly abnormal papanicolaou smears. *American Journal Of Clinical Pathology* **124**, 722–32. PMID: 16203281.
64. Wang, SS, **A Dasgupta**, ME Sherman, JL Walker, MA Gold, R Zuna, L Sakoda, S Wacholder, M Schiffman, and CC Baker (June 2005). Towards improved biomarker studies of cervical neoplasia: effects of precolposcopic procedures on gene expression patterns. *Diagnostic Molecular Pathology: The American Journal Of Surgical Pathology, Part B* **14**, 59–64. PMID: 15905687.
65. Santos, CL, J Torres, J Sanchez, **A Dasgupta**, and J Jeronimo (Oct. 2004). Lack of effectiveness of CO2 cryotherapy for treatment of CIN. *International Journal Of Gynaecology And Obstetrics* **87**, 44–5. PMID: 15464779.
66. Das Gupta, S and **A Dasgupta** (2002). Ill-conditioned design and unidentifiability. *Sankhyā: The Indian Journal of Statistics, Series A*, 86–94.
67. **Dasgupta, A** and S Das Gupta (2000). Parametric Identifiability and Model-Preserving Constraints. *Calcutta Statistical Association Bulletin* **50**(3-4), 207–222.
68. Murphy, SA, **A Dasgupta**, KC Cain, LC Johnson, J Lohan, L Wu, and J Mekwa (Mar. 1999). Changes in parents' mental distress after the violent death of an adolescent or young adult child: a longitudinal prospective analysis. *Death Studies* **23**, 129–59. PMID: 10848135.
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ABSTRACTS

1. Ward, MM, M Tektonidou, and **A Dasgupta** (Aug. 2018). CS-27 Mortality among patients with systemic lupus erythematosus hospitalized with sepsis varies widely among US hospitals. *Lupus Science & Medicine* **5**(Suppl 2), A37–A38.
2. Holzinger, E, S Szymczak, J Malley, **A Dasgupta**, Q Li, and J Bailey-Wilson (2016). A Novel Phenotype Permutation Method to Optimize Threshold selection in Random Forests. *Genetic Epidemiology* **40**(7), 641–642.
3. Tektonidou, MG, **A Dasgupta**, and MM Ward (2014). Methodological quality of studies of end-stage renal disease risks in lupus nephritis. *Arthritis Research & Therapy* **16** (Suppl 1)(Suppl 1), A47.
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MANUSCRIPTS IN PROGRESS

1. Swayambunathan, J, **A Dasgupta**, and T Bhattacharyya (n.d.). “Improved outcomes associated with intraoperative fluorescence during total hip arthroplasty”. *Under review*.
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