

## PERSONAL

**Soutrik Banerjee**


📍 Franconville, 95130, France

☎ +33 1 34 13 12 66 📠 +33 6 66 16 87 52

✉ [soutrib@yahoo.fr](mailto:soutrib@yahoo.fr)  
[mit\\_70@hotmail.com](mailto:mit_70@hotmail.com)

🔗 **LinkedIn:** <https://www.linkedin.com/in/soutrik-banerjee-47a75b4/>

**Research Gate:**

[https://www.researchgate.net/profile/Soutrik\\_Banerjee\\_sautrika\\_bandyopadhyaya](https://www.researchgate.net/profile/Soutrik_Banerjee_sautrika_bandyopadhyaya)

**Google Scholar:** <http://scholar.google.com/citations?user=SzqZ0yEAAAAJ&hl=en>

**Mendeley:** <https://www.mendeley.com/profiles/soutrik-banerjee/>

**Git Hub:** <https://github.com/Mithua> [-master- & -branch-, 'myRepository', 'myHadoop']

💬 [soutribk \[Skype\]](#)

Sex Male | Date of birth 04/05/1970 | Nationality Indian (having French work permit) | Civil status Married

**Sr. Statistician**

Have 50% experience in corporate sectors (pharmaceuticals & vaccines) and have 50% experience in academia & public sectors;

85% FTE in R & D, 15% FTE in marketing;

80% FTE as technical project expertise, 20% FTE in managerial roles;

50% FTE as statistician, 50% FTE in programming TFLs;

80% FTE working in observational data, 20% FTE working in clinical trials data;

Have studied & worked in: France, Belgium & India;

Experienced in over 50 French, European, international & corporate projects;

Worked on 20 French, European & US databases;

Have over 40 publications & communications

## POSITION - SUMMARY

## KEY POINTS

- MOOCs in big data & data science
- 15+ years' experience in claims / registry / surveillance / cohort / RCTs / insurance - databases (or data) for pharmaceutical / vaccines & public health sectors
- Design cross-sectional, retrospective & prospective cohorts, case-control, propensity matching, meta-analysis, case-crossover, & ecological studies
- Drug utilisation, healthcare utilisation & cost, HTA, HIA, EBM, burden of illness, & QoL
- Analysis, programming & data mining of efficacy / AE outcomes
- Develop & review: analysis plans, protocols, & reports

## WORK EXPERIENCE

June 2017 - Present

**Consultant Expert Statistician**

DBV-Technologies, Paris, France (<https://www.dbv-technologies.com>)

- Provide statistical support (CDISC, SAP, protocol, SAS / R / Stata programming of TFLs, QC & macros / functions, analysis, validation, data mining, publications, oral/poster communications & reports) for the biometry team

- Keywords: CDISC, Peanuts allergy, data mining, sample size & power, Phase II & Phase III clinical trials, pharmacovigilance

March 2016 - August 2016

**Consultant Outcomes Research Statistician**

Bristol-Myers Squibb, Paris, France (<http://www.bms.com>)

Indications:

- Eliquis® [apixaban], novel oral anti-coagulant (NOAC), for persistence, bleeding & stroke prevention in non-valvular atrial-fibrillation (NVAf) & recurrent venous thrombo-embolism (VTE)
- Empliciti® [elotuzumab] for multiple myeloma, Opdivo® [nivolumab] for melanoma, NSCLC
- Daklinza® [daclatasvir] for *Hepatitis-C*
- Keywords: *protocols* & *SAPs* – development, review & amendment in Non-Interventional Research (NIR), Post-Authorisation Safety (PAS) study, Comparative Safety & Effectiveness Research (CSER), Authorisation for Temporary Use (ATU), CRO outsourcing & management, review committee, sample size & power, data consistency & integrity checking using SAS

**Business or sector** Pharmaceuticals [corporate]

July 2015 - November 2015

### Consultant Statistician-Programmer in Real-World Data Analysis

Janssen Pharmaceuticals (J&J), Paris, France (<http://www.janssen.com>)

- Xeplion® [paliperidone palmitate] PAS study (Swedish & Danish national registry databases, data management, SAS programming of TFLs, QC & macros, analysis)
- Mentor 1 junior statistician-programmer
- Keywords: SAS, registry databases, big data, anti-psychotics

**Business or sector** Pharmaceuticals [corporate]

August 2011 - June 2015

### Principal Statistician in Environmental Sciences & Health

INSERM UMR-S 1136 – UPMC-Sorbonne, Paris 6, France (<http://www.inserm.fr>, <http://www.upmc.fr>)

- Provide statistical support (inputs into protocol, design, SAP, data management, programming TFLs (using various software incl. SAS, Stata, R, MLwin, BUGS, Weka, RapidMiner, Matlab, GIS, etc.), analysis, publications, oral / poster communications & reports) for several French, European & International projects
  - Extract data from the French national health insurance database
- Associate professor (topics in statistics) at Pierre & Marie Curie University, Paris 6 (Master II TES), University Denis-Diderot (Master I RIM), Paris 7 & EAACI summer school on Allergy, Brindisi (<http://www.eaaci.org>)
  - Overview, association, sample size & power calculations, data management & analysis with R language, correlation & regression, ANOVA, Epi-Info
- Mentor master, doctoral & post-doctoral students from France or exchange programme students
- International travelling for several project meets & missions
- Keywords: cardio-respiratory, asthma & allergic outcomes, (indoor) air pollution (quality), wildfires, building characteristics, neighbourhood characterisation, stress, school children; (Bayesian) hierarchical models, spatial / ecological analysis, meta-analysis, time-series analysis, data mining, machine learning, cluster analysis, latent class analysis, (un-)supervised learning, cross-validation, parameter optimisation, attributes selection, claims database, big data, questionnaires, cohorts

**Business or sector** Environment & Health [academia / public]

May 2010 - May 2011

### Consultant Statistician-Programmer in Epidemiology

GSK Biologicals, Brussels, Belgium (<http://www.gsk.be/fr-biologicals.html>)

- Provide statistical support (SAS programming of TFLs, QC & macros, analysis, statistical reports) for infectious diseases (*Staphylococcus*, *Streptococcus*, *Haemophilus*, *H1N1* PAS study in epidemiology (team 4) projects or extraction from US databases (CDC-NHDS & TSN)
- Keywords: SAS, vaccines, *Streptococcus*, *Staphylococcus*, *Haemophilus*, *H1N1*, Bayesian disease mapping (BUGS), registry database, big data

**Business or sector** Vaccines [corporate]

February 2010 - May 2010

### Consultant Statistician in Clinical Data Integration

Boehringer-Ingelheim, Brussels, Belgium ([https://www.boehringer-ingelheim.com/global\\_activities/europe/germany.html](https://www.boehringer-ingelheim.com/global_activities/europe/germany.html))

Clinical Data Integration (CDISC-ADaM mapping, QC) for Phase III diabetes clinical trials

**Business or sector** Pharmaceuticals [corporate]

June 2007 - February 2010

### Consultant Outcomes Research Statistician

UCB Pharma, Brussels, Belgium (<http://www.ucb.com>)

- Provide statistical & epidemiology support (inputs into design, SAP, analysis, publication, oral / poster communication, report, PharMetrics® US claims database extraction) for the outcomes research team
- Liaise with both development (statistical programming, health economics, patient-reported outcomes, medical affairs, pharmacovigilance) & marketing / commercial teams
- Domains: drug utilisation, healthcare cost & resource, market churn, patient segmentation, indirect comparison, meta-analysis, systemic literature review, persistence-compliance, dose (de-)escalation, burden of illness, comorbidities, QoL
- Keywords: SAP, statistical modelling (mainly SAS), HEOR, epilepsy, collagen-vascular & immune diseases, diabetic neuropathy, Parkinson, RLS, adverse events, claims database, big data

July 2006 - April 2007

Business or sector Pharmaceuticals [corporate]

### Post-Doctoral Researcher Statistician

INSERM U.687, Paris, France (<http://www.inserm.fr>)

- Epidemiology research involving the Whitehall II British civil servants' cohort
- Keywords: cognitive function (battery of tests), cognitive decline, depression (GHQ), social epidemiology, analysis of change

April 2000 - July 2000

Business or sector Social epidemiology [academia / public]

### Consultant Medical Transcription Instructor

MCC Software Pvt. Ltd., Calcutta, India

Provided training to 25 Medical Transcription trainees

August 1996 - December 1998

Business or sector Medical Transcription [corporate]

### Resident Medical Officer

Life-Line Nursing Home, Calcutta, India

Worked in the Intensive Care &amp; Dialysis units

August 1994 - August 1996

Business or sector Medical [corporate]

### Senior House Officer

SSKM-IPGMR Hospital, Calcutta, India

Worked in the Cardiology, Medicine, Nephrology &amp; Neurology departments

Business or sector Medical [public]

## EDUCATION AND TRAINING

2016 - 2017

### MOOCs & courses in big data & data science

Udacity nanodegree in deep learning, DataCamp in Python &amp; R, Udemy in data science, big data, machine learning, deep learning &amp; AWS with Python, R, Spark &amp; Scala, DSTI classes, Paris, France (includes MOOCs &amp; 500 hours of classroom lectures with projects posted @Git Hub)

- Coursework:
- Graph theory, computational sociology, algorithms, data structures, optimisation
- **Supervised learning** – Decision trees (M5P, CHAID, CART, decision stump, extra tree), k-NN, SVM / RVM, Gaussian process, boosting, bagging, voting, dagging, random forest, rotation forest, stacking, PLS regression, LASSO / ridge / elastic net / LARS – regressions, least median squares regression, Bayes net, naïve Bayes, isotonic regression, pace regression, RBF regression
- **Unsupervised learning** – cluster analysis (AHC, k-means), FA, DA, MCA, PCA, canonical correlation, LCA / LTA, FMM, preference mapping, multidimensional scaling/biplot
- **Deep learning** – neural network, multilayer perceptron, convnet, RNN
- **General methods** – attribute selection, multiple imputation, variable importance, CV, parameter optimisation, predictive modelling, Bayesian model averaging, data mining, machine learning, visualisation
- **Time-series analysis** – financial (smoothing, forecasting, ADF test, (S)ARIMA, (M)(E / T)GARCH(-M), (S)VAR, VECM, TAR / SETAR / STAR, FTP / TVTP), non-parametric (GAM / GLM using natural(cubic) / penalised splines, GCV, d.f.)
- **Cloud-based platforms** – Predix, Azure / Machine Learning Studio, AWS, SAS (CAS), Matlab

2005 - 2006

### Master II Biostatistics

Universiteit Hasselt, Diepenbeek, Belgium (250 hours of coursework + dissertation)

- **Coursework:** Biometry, Linear Models, GLMs, Multivariate Analysis, Longitudinal Analysis, Mixed (Hierarchical) Models, Bayesian Analysis, Survival Analysis, Clinical Trials, Finite Mixture Models, Latent Class Analysis, Epidemiology, Modelling Infectious Diseases, Missing Data Analysis, Categorical Data Analysis, Robust Regression, Computer Intensive Methods, Data Mining, Machine Learning, Time-Series Analysis, Sample Size & Power Calculations, Survey Methods & Sampling Techniques, Meta-analysis & Indirect Comparison, Disease Mapping, Spatial Statistics, (Agent-Based Modelling & Simulation, Social Network Analysis)

## 2001 – 2005 PhD Methods of Analysis of Health Systems

Université Paul Sabatier, Toulouse III, France

- **Lab:** INSERM U.558 (Grenoble)
- **Research:** Telemedicine, Tele-surveillance, Tele-assistance, Clinical Research, Modelling, Geriatrics, Actimetry, Actigraphy, 'smart' bedroom

## 2001 - 2004 Master I (MSBM) Biomedical Sciences (*part-time*)

Université Joseph Fourier, Grenoble I, France (250 hours of coursework + dissertation)

- **Coursework:** Biostatistics; Epidemiology, Methodology in Clinical Research, Survival Analysis; Health-Environment-Toxicology

## 2000 - 2001 Master II Research (DEA) Biomedical Engineering

Université Joseph Fourier, Grenoble I, France (100 hours of coursework + lab research & dissertation)

- **Lab:** INSERM U.558 (Grenoble)
- **Coursework:** Medical Imaging (MRI, Microscopic Imaging, Ultrasound, Digital Signal Processing, Radio-nuclear Imaging)
- **Research:** Telemedicine, Teleassistance, Actimetry, Actigraphy

## 1988 - 1994 MBBS (Bachelor of Medicine & Surgery)

NRS Medical College & Hospital, University of Calcutta, West Bengal, India

- Clinical (Medicine, Surgery, Paediatrics, Orthopaedics, Eye & ENT disorders, Gynaecology, Obstetrics)
- Para-clinical (Pathology, Pharmacology, Microbiology, Forensic Medicine, Community Medicine)
- Pre-clinical (Anatomy, Embryology, Physiology, Biochemistry, Biophysics)

## PERSONAL SKILLS

### Mother tongue Languages

Bengali

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
Bengali	C2	C1	C2	C1	B2
French	B2	B1	C1	B2	B1
Hindi-Urdu	C2	A2	B2	B1	A2
Spanish	A2	A2	A2	A2	A2
German	A1	A2	A1	A1	A1

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user  
Common European Framework of Reference for Languages

### Management

- Overall: 20% of time
- Mentor 1 junior biostatistician (J&J)
- Mentor 19 master, doctoral & post-doctoral or exchange programme researchers from France or abroad (INSERM UMR-S 1136 – UPMC-Sorbonne, Paris 6)
- Manage 4 SAS programmers (UCB)

### Job-related skills

#### ▪ **Data / databases knowledge:**

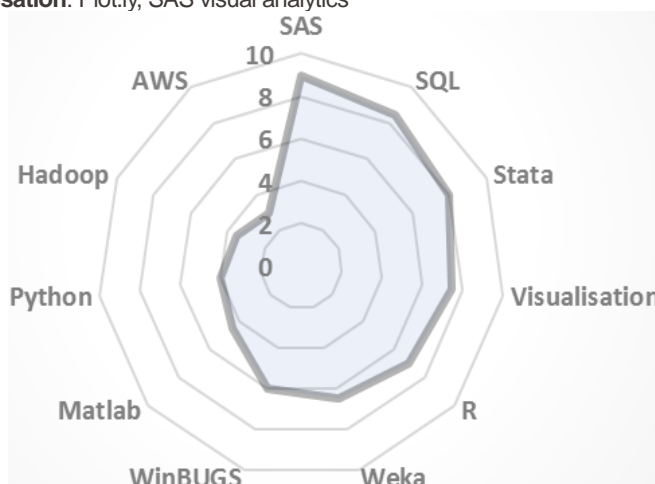
- PharMetrics® claims (US), Whitehall II cohort (UK), CDC-NHDS registry (US), TSN registry (US), Sniir-AM health insurance (Fr.), EGB health insurance cohort (Fr.), ESPS cohort (IRDES, Fr.), SINPHONIE study (EU), ISAAC French 6 cities study, PAISARC+ study (Fr.), FERMA study (Fr.), Asthm'Child study (Fr.), BAPHE study (Lebanon), HEALS (EU), EDEN (Fr.), PHASE (EU), Pollin'Air (Fr.), AIAPS (New Caledonia), national registries (Se., Dk.)

#### ▪ **Projects:**

- **French:** PAISARC+, ISAAC - 6 cities study, FERMA, Pollin'Air, Asthm'Child, PID93, EDEN, Balistic; TISSAD, AGRICA
- **European:** SINPHONIE (DG-SANCO), PHASE, GERIE, HEALS consortium (7<sup>th</sup> Framework Program), MED-HISS (LIFE+), Xeplion® PAS study
- **International:** BAPHE, AIAPS
- + several corporate industry projects

### Software

- **Statistics:** R, Stata, SAS (stat / graph / base / SQL / macro / EG / studio / EM)
- **Bayesian:** BUGS
- **Multilevel:** MLwiN + StatJR
- **Data mining:** RapidMiner, Weka, Orange
- **Hadoop ecosystem:** Hive, HBase, Sqoop, Flume, Spark, Scala, Kafka
- **GIS:** SaTScan, ArcGIS, QGIS
- **Sample size & power:** nQuery, G\*Power
- **Multipurpose:** Python, Matlab, Mathematica
- **Agent-Based Modelling & Simulation:** NetLogo
- **Database Management System:** Access, XAMPP
- **Visualisation:** Plot.ly, SAS visual analytics



### Fields of expertise

#### Infectious diseases

- *Staphylococcus, Streptococcus, Haemophilus*, Acute Otitis Media, Chronic Obstructive Pulmonary Disease, H1N1, Hepatitis-C, Malaria, Adverse Events

- Diabetes Mellitus

#### Neurology & psychiatric diseases

- Epilepsy, Parkinson, Restless Legs Syndrome, Suicidality, Schizophrenia, Adverse Events, Stress

#### Collagen-vascular diseases

- Rheumatoid Arthritis, Systemic Lupus Erythematosus, Ankylosing Spondylitis

#### Immune diseases

- Crohn's Disease, Psoriatic Arthritis

#### Respiratory & allergic diseases

- Asthma, Atopy, Lung Ageing, Allergic Rhinitis, Spirometry, Biomarkers, Peanuts

#### Geriatrics

- Dementia, Cognitive Impairment, Depression, Disability, Falls, Wandering, Burden of Illness

#### Nephrology & dialysis

- 

#### Internal medicine

- Acute Myocardial Infarction, Atrial Fibrillation
- Multiple Myeloma, Melanoma

#### Cardiology

- Thrombo-embolism

#### Oncology

- Cardiology, Geriatrics, Nephrology, Medical Imaging

#### Haematology

- Indoor & Outdoor Air Pollution (Quality), Biological Agents, Wildfire

#### Medical devices

- Neighbourhood Deprivation Index, Small Area Statistics, New Zoning, Socio-Economic Status

#### Environment

- Selenium, Mini-Nutritional Assessment

#### Sociometrics

#### Nutrition

Psychometrics  
Education  
Claims (health insurance) data

- Verbal, Memory, Attention, Alice-Heim-4, Mill-Hill – Tests, SF-36, GHQ-30
- 
- 

Specialities

- Main: Statistics, Data Science, Outcomes Analysis, Statistical Programming, Data Management
- Additional: Epidemiology, Scientific Writing, Lit. Reviews, PROs, Health Economics, Medical Affairs, Drug Safety

Other skills

- Peer Reviews, Grant Proposals, RFPs, Questionnaires, CRO Outsourcing & Management, Review Committee

Recommendations

- Please consult my [LinkedIn](#) profile for recommendations and endorsements obtained and given (the link is provided at the beginning)

## ADDITIONAL INFORMATION

---

Job sectors

- Pharmaceutical & Vaccines Industries (4 years in Belgium, 1 year in France)
- Environmental Sciences & Public Health Research (INSERM) (5 years in France)
- Biomedical Engineering Research (CHU) (5 years in France)
- Medical (4 years in India)



## Publications

1. Youssouf H, Liousse C, Roblou L, Assamoi EM, Salonen RO, Maesano C, **Banerjee S**, Annesi-Maesano I. Non-accidental health impacts of wildfire smoke. *Int J Environ Res Public Health* 2014;**11**:11772-804 (doi: <http://dx.doi.org/10.3390/ijerph11111772>)
2. Youssouf H, Liousse C, Roblou L, Assamoi EM, Salonen RO, Maesano C, **Banerjee S**, Annesi-Maesano I. Quantifying wildfires exposure for investigating health-related effects. *Atmos Environ* 2014;**97**:239-51 (doi: <http://dx.doi.org/10.1016/j.atmosenv.2014.07.041>)
3. Caillaud D, Horo K, Baiz N, **Banerjee S**, Charpin D, Lavaud F, de Blay F, Raheison C, Annesi-Maesano I. Exercise-induced bronchospasm related to different phenotypes of rhinitis without asthma in primary schoolchildren: the French Six Cities Study. *Clin Exp Allergy* 2014;**44**:858-66 (doi: <http://dx.doi.org/10.1111/cea.12310>)
4. Caillaud D, Horo K, Baiz N, **Banerjee S**, Charpin D, Lavaud F, de Blay F, Raheison C, Annesi-Maesano I. Différents phénotypes de rhinite allergique isolée (sans asthme) sont associés au bronchospasme induit par l'exercice: l'étude française des 6 villes. *Rev Maladies Respiratoires* 2014;**31**:4 (doi: <http://dx.doi.org/10.1016/j.rmr.2013.10.014>)
5. Annesi-Maesano I, Baiz N, **Banerjee S**, Rudnai P, Rive S. Indoor air quality and sources in schools and related health effects. *Journal of Toxicology and Environmental Health, part B* 2013;**16**:491-550 (doi: <http://dx.doi.org/10.1080/10937404.2013.853609>)
6. Zhou C, Baiz N, **Banerjee S**, André Charpin D, Caillaud D, de Blay F, Raheison C, Lavaud F, Annesi-Maesano I. The relationships between ambient air pollutants, and childhood asthma and eczema are modified by emotion and conduct problems. *Annals of Epidemiology* 2013;**23**:778-83 (doi: <http://dx.doi.org/10.1016/j.annepidem.2013.09.004>)
7. Annesi-Maesano I, Zhou C, Baiz N, **Banerjee S**, André Charpin D, Caillaud D, de Blay F, Raheison C, Lavaud F. Externalising and internalising behavioural problems related to asthma in school children. *Allergy* 2013;**68**:1471-4 (doi: <http://dx.doi.org/10.1111/all.12241>)
8. Zhou C, Baiz N, Zhang T, **Banerjee S**, Annesi-Maesano I. Modifiable exposures to air pollutants related to asthma phenotypes in the first year of life in children of the EDEN mother-child cohort study. *BMC Public Health* 2013;**13**:506-15 (doi: <http://dx.doi.org/10.1186/1471-2458-13-506>)
9. **Banerjee S**, Annesi-Maesano I. Spatial Variability of Indoor Air Pollutants in Schools. A Multilevel Approach. *Atmos Environ* 2012;**61**:558-61 (doi: <http://dx.doi.org/10.1016/j.atmosenv.2012.08.007>)
10. Richy F, **Banerjee S**, Makaroff L, Bancel C, Bancel C, Gervasoni C, Lilliu H. Health care costs stratified by epilepsy severity in a US commercially insured setting. *Value Health* 2010;**13**:138 (doi: [http://dx.doi.org/10.1016/S1098-3015\(10\)72671-1](http://dx.doi.org/10.1016/S1098-3015(10)72671-1))
11. Richy F, **Banerjee S**, Brabant Y, Helmers S. Levetiracetam extended release and levetiracetam immediate release as adjunctive treatment for partial-onset seizures: an indirect comparison of treatment-emergent adverse events using meta-analytic techniques. *Epilepsy Behav* 2009;**16**:240-5 (doi: <http://dx.doi.org/10.1016/j.yebeh.2009.07.013>)
12. Richy F, **Banerjee S**, Gervasoni C, Grossman P, Helmers S. Safety profile of levetiracetam extended release as compared to immediate release. An indirect comparison using a meta-analytic approach. *Epilepsia* 2008;**49**:449-50 (doi: <http://dx.doi.org/10.1111/j.1528-1167.2008.01872.x>)
13. Corte-Franco G, **Banerjee S**, Millet C, Ouzaid K, Steenkeste F, Couturier P. Analyse de l'activité motrice nocturne chez les patients avec troubles psycho-comportementaux par chambre actimétrique: à propos d'un cas. *Rev Neurol* 2009;**10**:83-4 (doi: [http://dx.doi.org/10.1016/S0035-3787\(09\)72662-1](http://dx.doi.org/10.1016/S0035-3787(09)72662-1))
14. **Banerjee S**, Corte G, Moulin P, Steenkeste F, Couturier P. A short nocturnal activity scale used by nurses to evaluate hospitalised patients with dementia. *J Am Geriatr Soc* 2009;**57**:1953-5
15. **Banerjee S**. Gerontechnology for the European silver paper. *Gerontechnology* 2008;**7**:363 (doi: <http://dx.doi.org/10.4017/qt.2008.07.04.017.00>)
16. **Banerjee S** & Couturier P. A mini-questionnaire to assess the acceptability of an environmental, unobtrusive, patient-monitoring device. *J Telemed Telecare* 2006;**12**:50-2
17. Steenkeste F, **Banerjee S**, Couturier P. Telesurveillance of geriatric patients in a hospital using passive infra-red sensors. *JITH* 2005;**3**:89-100
18. **Banerjee S**, Couturier P, Steenkeste F, Moulin P, Franco A. Measuring nocturnal activity in Alzheimer's disease patients in a 'smart' hospital room. *Gerontechnology* 2004;**3**:29-35 (doi: <http://dx.doi.org/10.4017/qt.2004.03.01.005.00>)
19. Couturier P, **Banerjee S**, Steenkeste F, Moulin P, Tranchant L, Moine S, Franco A. Télémontoring de l'activité motrice par chambre intelligente pour la détection, l'analyse, la prise en charge des troubles du comportement moteur des patients déments. *Rev Neurol* 2003;**10**:104-5
20. **Banerjee S**, Steenkeste F, Couturier P, Debray M, Franco A. Telesurveillance of elderly patients by use of passive infra-red sensors in a 'smart' room. *J Telemed Telecare* 2003;**9**:23-9
21. Debray M, Couturier P, Greuillet F, Hohn C, **Banerjee S**, Gavazzi G, Franco A. A preliminary study of the feasibility of wound telecare for the elderly. *J Telemed Telecare* 2001;**7**:353-8

## Oral communications

1. I. Annesi-Maesano, **S. Banerjee**, F. Amrani, A. Dallongeville, Olivier Blanchard, S. Deguen, N. Costet, D. Zmirou. Indoor galaxolide concentration prediction from building and occupants' characteristics. *The 18<sup>th</sup> International Symposium on Environmental Pollution & its Impact on Life in the Mediterranean Region, MESAEP, Crete, September 2015*
2. A. Dallongeville, **S. Banerjee**, D. Zmirou, B. Le Bot, N. Costet, S. Deguen, I. Annesi-Maesano, O. Blanchard. Predictive modelling of indoor formaldehyde and SVOC concentration based on air sampling and descriptive questionnaire data. *The healthy buildings conference Europe, Eindhoven, May, 2015*
3. **S. Banerjee**, C. E. Sabel, W. Kihal, C. Weber, I. Annesi-Maesano, D. Bard. Asthma attacks in the Strasbourg metropolitan area: spatial analysis in relation to air pollution & neighbourhood deprivation. *The 2<sup>nd</sup> Health & Space Symposium, Marseille, September, 2012*
4. F. Steenkeste, **S. Banerjee**, P. Couturier. Telesurveillance of the dependent seniors using passive infra-red sensors in a geriatric hospital. *Proc. of Telecare, Porto, April, 2004:86-96*
5. **S. Banerjee**, P. Couturier, F. Steenkeste, M. Debray, A. Franco. Télésuivi en continu de l'activité nocturne des déments par des capteurs à infrarouge passifs. *Le 7<sup>ème</sup> Congrès International Francophone de Gérontologie, Brussels, September 2002*
6. A. Franco, P. Couturier, C. Montani, G. Gavazzi, S. Moine, M. Debray, C. Hohn, P. Basset, A. Sagnier, F. Picot, L. Macem-Oberti, B. Bahmane, F. Tarpin-Lyonnet, J. Tyrrell, **S. Banerjee**, R. Culet, M. Frossard. Videoconferencing between remote hospitals for the professionals of gerontology. *The 17<sup>th</sup> World Congress of the International Association of Gerontology, Vancouver, July 2001*

## Posters

1. Y. Hassani, **S. Banerjee**, L. Roblou, C. Liousse, I. Annesi-Maesano. Wildfire exposure assessment and related health impact: a case study in Marseille. *The International Smoke Symposium, Baltimore, October 2013*
2. Y. Hassani, **S. Banerjee**, C. Liousse, L. Roblou, I. Annesi-Maesano. Wildfires: from exposure assessment and related health impact. Wildfire emission inventory in Europe from 2006 to 2010. *Les Journées de l'École, St. Malo, October 2012; EHESP Annual Scientific Meeting, Paris, April 2013; Les Journées de l'École Pneumologie, Tours, September 2013*
3. C. Zhou, N. Baiz, **S. Banerjee**, D. André Charpin, D. Caillaud, F. de Blay, C. Raheison, F. Lavaud, I. Annesi-Maesano. The relationships between ambient air pollutants, and childhood asthma and eczema are modified by emotions and conduct problems. *Les Journées de l'École, St. Malo, October 2012; Les Journées de l'École Pneumologie, Tours, September 2013*
4. F. Richy, **S. Banerjee**, L. Makaroff, C. Bancel, C. Clark, C. Gervasoni, H. Lilliu. Health care costs stratified by epilepsy severity in a US commercially insured setting. *The 15<sup>th</sup> ISPOR Annual International Meeting, Atlanta, May 2010*
5. G. Corte, **S. Banerjee**, C. Millet, K. Ouzaid, P. Couturier. Analyse de l'activité motrice nocturne chez les patients avec troubles psycho-comportementaux par chambre actimétrique: à propos d'un cas. *La 10<sup>ème</sup> Réunion Francophone sur la Maladie d'Alzheimer et les Syndromes Apparentés, Nantes, October 2009*
6. G. Corte, **S. Banerjee**, P. Couturier, F. Steenkeste, P. Moulin. Evaluating nocturnal motor activity of demented inpatients by a short semi-quantitative scale. *The 19<sup>th</sup> World Congress of the International Association of Gerontology, Paris, July 2009; The 14<sup>th</sup> International Congress of the International Psychogeriatric association, Montreal, September 2009*
7. **S. Banerjee**, G. Corte, F. Steenkeste, P. Couturier. Nocturnal wandering and cognitive function: cross-sectional and longitudinal study of elderly inpatients in France. *The 19<sup>th</sup> World Congress of the International Association of Gerontology, Paris, July 2009*
8. F. Richy, **S. Banerjee**, C. Gervasoni, P. Grossman, S. Helmers. Safety profile of levetiracetam extended release as compared to immediate release: an indirect comparison using a meta-analytic approach. *The 62<sup>nd</sup> American Epilepsy Society Annual Meeting, Seattle, December 2008; The 61<sup>st</sup> American Academy of Neurology Annual Meeting, Seattle, April 2009*
9. **S. Banerjee**, P. Couturier, F. Steenkeste, P. Moulin, J. Garçon, V. Moulin, P. Dubey, A. Franco. Different actimetric models in demented elderly patients by use of GARDIEN system. *The 18<sup>th</sup> World Congress of the International Association of Gerontology, Rio de Janeiro, June 2005*
10. **S. Banerjee**, P. Couturier, M. Schaff, F. Steenkeste, P. Moulin, A. Franco. Deambulatory actimetry of the demented elderly in a geriatric hospital. *The 18<sup>th</sup> World Congress of the International Association of Gerontology, Rio de Janeiro, June 2005*
11. **S. Banerjee**, P. Couturier, L. Tranchant, P. Moulin, A. Franco, F. Steenkeste. Évaluation et Gestion des troubles du comportement moteur nocturne chez le patient fragile ou dément par chambre actimétrique. *25<sup>ème</sup> Journées Annuelles de la Société Française de Gériatrie et de Gérologie, Paris, October 2004*
12. **S. Banerjee**, P. Couturier, F. Steenkeste, C. Picard, L. Tranchant, A. Franco. Contribution du système GARDIEN au dépistage de l'hyperactivité nocturne au lit induite par la mesure de la pression artérielle ambulatoire. *La 11<sup>ème</sup> Journée thématique de la Société Française de Gériatrie et de Gérologie: Technologies au service du soin gérologiques, Paris, May 2004*
13. **S. Banerjee**, P. Couturier, F. Steenkeste, L. Tranchant, P. Moulin, A. Franco. Continuous telesurveillance of nocturnal activity of frail elderly patients in a 'smart' hospital room. *The 5<sup>th</sup> European Congress of Gerontology, Barcelona, July 2003*
14. F. Steenkeste, **S. Banerjee**. Le TAPIS (Télésuivi de l'Activité de Personnes en Incapacité Sévère) actimétrique: apport technologique à la prise en charge des personnes âgées dépendantes. *Le 7<sup>ème</sup> Congrès International Francophone de Gérologie, Brussels, September 2002*
15. F. Steenkeste, **S. Banerjee**, T. Voisin. Assistance aux Personnes Âgées Dépendantes. Évaluation d'une Approche Technologique. *Journées INSERM, Midi-Pyrénées, Toulouse, March 2002*
16. **S. Banerjee**, Steenkeste F, Couturier P, Debray M, Franco A. GARDIEN: a system for detecting nocturnal motor activity in elderly patients in a hospital room. *The 17<sup>th</sup> World Congress of the International Association of Gerontology, Vancouver, July 2001*
17. M. Debray, P. Couturier, F. Greuillet, **S. Banerjee**, C. Hohn, A. Franco. Reliability of wound assessment in the elderly using high quality digital images. *The 17<sup>th</sup> World Congress of the International Association of Gerontology, Vancouver, July 2001*

## Invited talks

1. Asthma attacks in the Strasbourg metropolitan area: spatial analysis in relation to air pollution & neighbourhood deprivation. *Anthropological Survey of India, Calcutta, June 2015*
2. Les résultats d'une étude sur la qualité de l'air en établissement d'hébergement pour personnes âgées dépendantes (EHPAD) ou 'maison de retraite médicalisée' et des propositions d'amélioration. *Le 7<sup>ème</sup> rencontre des métiers de la santé, Strasbourg, May 2015*
3. Epi-Info. *European Academy of Allergy & Clinical Epidemiology summer school on allergy, Brindisi, July 2014*
4. Teleassistance of the elderly: development of nocturnal ambulatory actimetry. *Centrum voor Statistiek, Diepenbeek, January 2006*
5. L'actimétrie déambulatoire. *La 11<sup>ème</sup> Journée mondiale de la maladie d'Alzheimer organisée par l'Association Alzheimer 31, Toulouse, September 2004*

## Books

1. **Banerjee S**, Corte-Franco G, Couturier P. *Actimetry and Telemedicine in Cognitively Impaired Elderly Inpatients*, Lambert Academic Publishing, 2012
2. Corte-Franco G, **Banerjee S**, Couturier P. *Environmental actimetry: a new concept to evaluate elderly people*, Lambert Academic Publishing, 2011

## Chapter

1. Couturier P, Tyrrell J, **Banerjee S**, Debray M, Moulin P, Franco A. Téléassistance en milieu gériatrique: besoins et réponses technologiques. In: Enjalbert M, ed. *Rencontres en Rééducation: aides techniques et matériel d'assistance en gériatrie*. Paris: Masson, 2002:63-73



## Project reports &amp; manuscripts

1. Effect of varying doses of epicutaneous immunotherapy vs placebo on reaction to peanut protein exposure among patients with peanut sensitivity: a randomised clinical trial. H Sampson *et al.*, *JAMA* submission, August 2017
2. Xeplion® study: Post-authorisation safety study of cardiovascular and cerebrovascular adverse events in elderly patients treated with Paliperidone PR, Xeplion® and other antipsychotics (draft), November 2015
3. Asthm'Child: Cumulative exposure to indoor air pollution which may induce chronic respiratory diseases in children. A. Dallongeville, D. Zmirou-Navier, P. Le Cann, B. Le Bot, S. Deguen, C. Chevrier, N. Costet, **S. Banerjee**, I. Annesi-Maesano, O. Blanchard, March 2015
4. SINPHONIE: Schools indoor pollution and health. Observatory network in Europe. E. Csobod *et al.*, January 2015
5. FERMA: Relation entre facteurs environnementaux et maladies allergiques et respiratoires en milieu rural. I. Annesi-Maesano, M. Hulin-Flammand, **S. Banerjee**, F. Vibert, D. Caillaud, O. Ramousse, October 2012
6. GERIE: Geriatric study in Europe on health effects of air quality in nursing homes. I. Annesi-Maesano *et al.*, June 2012
7. Poor air quality in classrooms related to asthma and rhinitis in primary schoolchildren of the French 6 Cities Study. I. Annesi-Maesano *et al.*, *Thorax*, March 2012 (doi: <http://dx.doi.org/10.1136/thoraxinl-2011-200391>)
8. PAISARC+: Pollution Atmosphérique, Inégalités Sociales, Asthme et Risque Cardiaque: influence du contexte de vie. D. Bard *et al.*, February 2012
9. A hospital-based, prospective, observational surveillance of empyema thoracis and uncomplicated parapneumonic pleural effusion in children and adolescents aged less than 18 years in Taiwan (GSK Biologicals report draft: study no. 110249 (EPI-STREP-110249)). R. Gardner, J. Sawchik Monegal, **S. Banerjee**, J-Y. Pirçon, A. Martens, D. Geypens, Y-F. Liu, M. Van Dyke, R. Colindres, May 2011
10. The burden of Staphylococci in the US: an in-house NHDS and TSN® 1998-2006 databases analysis, in collaboration with GSK Pharmaceuticals (GSK Biologicals report: study no. 113122 (EPI-STAPH-001 BOD US DB)). J. Brissinck, J-Y. Pirçon, **S. Banerjee**, D. Geypens, A. Cassidy, L. Baril, February 2011
11. Healthcare costs in epilepsy in a US commercially insured setting (UCB report). **S. Banerjee**, L. Makaroff, C. Gervasoni, F. Richy, September 2009
12. Patterns of antiepileptic drug utilisation in epilepsy patients within the US patient-centric claims database Phametrics®: a cross-sectional study (UCB report). F. Richy, C. Gervasoni, A. Cimi, **S. Banerjee**, February 2009
13. Comparison of time to [removed due to confidentiality] between patients with epilepsy exposed to levetiracetam or to other antiepileptic drugs (UCB report: RRCE08B0616). F. Richy, **S. Banerjee**, C. Gervasoni, G. Le Teuff, A. Cimi, F. Tonner, P. Grossman, May 2008
14. [Removed due to confidentiality] rates among patients with epilepsy exposed to levetiracetam compared to those exposed to carbamazepine, gabapentin, lamotrigine, phenytoin, topiramate, valproic acid, or zonisamide (UCB report: RRCE08B0609). F. Richy, **S. Banerjee**, C. Gervasoni, A. Cimi, F. Tonner, P. Grossman, April 2008
15. Exploratory analysis of medication persistence and compliance in epilepsy patients using a claims (Pharmetrics®) database (UCB report: RRCE07D1101). J. Cramer, P. Grossman, G. Le Teuff, **S. Banerjee**, December 2007

## Project &amp; seminar presentations

1. Pitching for Industrial Internet Hackathon @GE Digital Foundry on GE Healthcare DoseWatch®, October 2016, Paris
2. Galaxolide concentration prediction within dwellings, Asthm'Child project, December 2014, Paris
3. Formaldehyde concentration prediction within dwellings, Asthm'Child project, June 2014, Paris
4. (Geo)-database creation for HEALS platform, HEALS project, June 2014, Helsinki
5. Short-term effects of air pollution methodology, PHASE project, June 2014, Rome
6. Phenotypes & endotypes, HEALS project, May 2014, Ljubljana
7. Predictive modelling & EWAS, HEALS project, March 2014, Thessaloniki
8. French medical insurance claims database (Snir-AM & EGB), Med-Hiss project, November 2013, Paris
9. Pollution-health association studies, HEALS project, October 2013, Paris
10. Short-term effects of air pollution, BAPHE project, Iranian visitors, June 2013, Paris
11. Introduction to multilevel models, Inserm UMR-S 1136 (ESIM), Feb 2013, Paris
12. Exploratory cluster analysis, Pollin'Air study, Stallergenes, s.a., May 2012, Paris
13. Meta-analysis, SINPHONIE project, February 2012, Paris
14. Market churn analysis in Systemic Lupus Erythematosus, UCB, s.a., January 2010, Brussels
15. Market churn analysis in Parkinson disease, UCB, s.a., January 2010, Brussels
16. Market churn analysis in Epilepsy, UCB, s.a., December 2009, Brussels
17. Phametrics® database for healthcare cost analysis, UCB, s.a., December 2009, Brussels
18. Market churn analysis in Diabetic Neuropathy, UCB, s.a., September 2009, Brussels
19. Healthcare cost & resource utilisation in Ankylosing Spondylitis & Psoriatic Arthritis, UCB, s.a., September 2009, Brussels
20. Healthcare cost in Epilepsy, UCB, s.a., September 2009, Brussels
21. Persistence & compliance in Epilepsy patients, UCB, s.a., July 2009, Braine-l'Alleud
22. Indirect comparison of Keppra IR vs. Keppra ER adverse events, UCB, s.a., November 2007, Braine-l'Alleud

## Teaching

1. EAACI summer school on allergy (<http://www.eaaci.org>), Brindisi 2014, Epi-Info, 1 hour lecture, 40 participants
2. Master I in Rehabilitation & Medical Engg., UMPC Paris 6, Paris 2014, Correlation – regression – ANOVA, 8 hours' lecture, 30 students
3. Master II in Toxicology-Environment-Health, UDD Paris 7, Paris 2013, Data management & analysis with R, 7 hours' practicals, 30 students
4. Master I in Rehabilitation & Medical Engg., UMPC Paris 6, Paris 2013, Correlation – regression – ANOVA, 8 hours' lecture, 30 students
5. Master II in Toxicology-Environment-Health, UDD Paris 7, Paris 2012, Biostatistics overview – data management & analysis with R, 4 hours' lecture + 7 hours' practicals, 30 students
6. Master II in Toxicology-Environment-Health, UDD Paris 7, Paris 2011, Biostatistics overview – sample size & power – association – data management & analysis with R, 10 hours' lecture + 7 hours' practicals, 30 students
7. Engg. Master, ISTG, Grenoble 2004, An application to gerontechnology, 1 hour lecture, 30 undergrad students
8. Engg. Master, ISTG, Grenoble 2003, An application to gerontechnology, 1 hour lecture, 30 undergrad students
9. DU in Gerontology, UJF, Grenoble 2002, An application to gerontechnology, small talk, 10 students
10. MCC software, s.a., Kolkata April-July 2000, teach medicine to the medical transcription trainees, 20 hours / week lecture, 25 trainees

## Jury

1. DU in Toxicology, UJF, Grenoble 2005, Statistics, undergrad students
2. Medicine, UJF, Grenoble 2005, Medical English, undergrad students

## Mentoring

1. Thomas Bovagnet, junior biostatistician, 2015 for Xeplion® PAS study
2. Shreosi Sanyal, biostatistician, 2015 for various projects
3. Katia Solin-Skrodzki, master student in healthcare & society: epidemiology, clinical research & medication, U Caen, 2015, biostatistics for SINPHONIE project
4. Lucile Sèse, master student intern in statistical methodology & clinical research, U Paris Sud Paris 2, 2015, biostatistics for COFI project
5. Christelle Audi, master student intern in Toxicology-Environment-Health, UDD Paris 7, 2015, biostatistics for FERMA project
6. Fouad Amrani, master student intern in Toxicology-Environment-Health, UDD Paris 7, 2015, data mining for Asthm'Child project
7. Youssef Hassani, PhD candidate in environmental epidemiology, UPMC Paris 6, 2012-2014, biostatistics for PHASE, FERMA projects
8. Nour Baiz, PhD candidate & post-doctoral researcher in environmental epidemiology, UPMC Paris 6, 2013-14, biostatistics for Asthm'Child, EDEN projects
9. Caillang Zhou, PhD candidate in environmental epidemiology, UPMC Paris 6, 2013-14, biostatistics for ISAAC-6 cities, EDEN projects
10. Fatima Benaïssa, visiting PhD candidate in environmental science, U de Béjaïa, 2014, biostatistics
11. Matthieu Veil-Picard, MD & researcher, CHU Besançon, 2014, biostatistics with SAS® for Balistic study
12. Joana Madureira, visiting PhD candidate in environmental engg., U do Porto, 2013, biostatistics for SINPHONIE+ project
13. Myriam Mad Nakhle, exchange PhD candidate in environmental epidemiology, St. Joseph U, Lebanon, 2013, biostatistics for BAPHE project
14. Nizar Ben Jeddou, master student in Toxicology-Environment-Health, UDD Paris 7, 2013, biostatistics for FERMA project
15. Malek Bentayeb, PhD candidate in environmental epidemiology, 2013, UPMC Paris 6, biostatistics for GERIE project
16. Nhân Pham Thi, MD & researcher, Hôpital Neckar, 2011, biostatistics for ISAAC-6 cities study
17. Gina Corte-Franco, PhD candidate in gerontology, CHU Grenoble, 2009, biostatistics for actimetry
18. Véronique Moulin, master engg., ISTG, 2005, internship
19. Johanne Garçon, master engg., ISTG, 2005, internship
20. Parth Dubey, CHU Grenoble, 2005, internship

## Academic results

1. Biostatistics: 68% (distinction)
2. PhD: very honourable
3. Biomedical Sciences: 66%
4. Biomedical Engineering: 58%
5. Medicine: 61%

## Peer reviewing of journals

- (<https://publons.com/author/1223475/soutrik-banerjee-sr-statistician-msc-md-phd#profile>)
1. Indoor Air
  2. Environmental Health Perspective
  3. Gerontechnology
  4. Journal of Telemedicine & Telecare

## Awards &amp; grants

1. Industrial Internet Hackathon (IIH) @GE Digital Foundry leading our team to win the event, Oct 2016 [Parrot Drone, Intel Edison+Arduino, Groove starter kit] (<https://industrial-internet-hack.devpost.com/submissions>)
2. Distinction in Master II Biostatistics, Hasselt Universiteit, Oct 2008
3. Felicitation of Jury, PhD, University Paul Sabatier, Oct 2005
4. GRECO scholarship, Oct 2005 (co-written with Pr. Dr. Pascal Couturier) [15,000 euros]
5. Association France Alzheimer et Maladies Apparentées doctoral scholarships, Oct 2001, Oct 2002 & Oct 2003 [47,000 euros]

## Major conferences attended

1. The 2<sup>nd</sup> Health & Space Symposium, Marseille, Sep 2012
2. The 19<sup>th</sup> World Congress of the IAGG, Paris, Jul 2009
3. The 18<sup>th</sup> World Congress of the IAGG, Rio de Janeiro, Jun 2005
4. The 5<sup>th</sup> European Congress of Gerontology, Barcelona, Jul 2003
5. Le 7<sup>ème</sup> Congrès International Francophone de Gérontologie, Brussels, Sep 2002
6. The 17<sup>th</sup> World Congress of the IAGG, Vancouver, Jul 2001

## Major courses attended

1. 5<sup>th</sup> ESSA summer school (*escuela de verano*) in agent-based modelling & simulation, 5 days, UAB, Barcelona 2014
2. EAACI summer school on allergy (<http://www.eaaci.org>), 4 days, Brindisi 2014
3. Summer school (*scuola d'estate*) in topics in cohorts' analysis in environmental epidemiology (R, survival analysis, quantile regression, causality) taught by Pr. Joel Schwartz (HSPH), 5 days, Dipartimento di Epidemiologia, Roma 2013
4. Summer school (*skol ha'iv*) in genetic epidemiology & statistics, 2 days, Roscoff 2013
5. 16<sup>th</sup> summer school (*Sommerschule*) in epidemiology (in collaboration with Chappell Hill, NC), 5 days, Universität Ulm, Ulm 2005

## ANNEXES

▪