**STATISTICS BOOK PROPOSAL**

**Chapman & Hall/CRC**

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| **TITLE AND AUTHOR(S)** |
| **1. Provisional title of your book.** |
| Seasonal Adjustment in R: seasonal and X-13ARIMA-SEATS  Seasonal adjustement with X-13ARIMA-SEATS in R: A practical guide  [no value added mentioning ‘seasonal’ explicitly] |
| **2. Authors and affiliations.** |
| Christoph Sax (University of Basel, cynkra LLC)  James Livsey (US Census Bureau) |
| **SUBJECT, AIMS AND FEATURES** |
| **3. Please describe in detail the subject of your book and indicate its academic level.** |
| This book will serve both R users who want to learn about seasonal adjustment as well as seasonal adjustment practitioners, such as those at governmental agencies, who are starting to become more interested in using R. The text will feature accessible background material and references for those theoretically minded but will be tailored more directly to the practical applications of seasonal adjustment with R. Specifically, we plan to showcase methods through detailed examples with associated code. This presentation of the material will allow the academic level can be quite broad; the text can be understood by undergraduates but interesting all the way through final year Ph.D. students. |
| **4. Please describe your motivation for writing the book; why it is important.** |
| X-13ARIMA-SEATS is one of, if not the most, widely used seasonal adjustment software within federal and statistical agencies. Moreover, there is a movement in statistical agencies toward the use of R and open-source products.  Hence the motivation for this book is twofold.  [1. Focus on particioner’s problem, rather than theory]  First, to bridge an important gap in the training for many seasonal adjustment practitioners. The book addresses practical problems and show how they can be addressed in X-13. The use of R allows them to have reproducible examples at hand.  [2. Guide to professional seas adjustement in R]  Second, to serve an important purpose to make the entry to seasonal adjustment easier for those already trained in R. Also, as data becomes available at higher frequencies seasonal adjustment users are looking for scripting language solutions to better understand output of their methods. |
| **5. Please list up to six key features of your proposed book.** |
| * Teach-by-example format * Continuous connection from X-13ARIMA-SEATS input to R input and vice-versa * Fundamental theoretical material when needed |
| **6. Will your book feature any supplementary material, e.g. code and datasets online, or a solutions manual?** |
| Yes! All of the above will be included. |
| **AUDIENCE AND RELATED BOOKS** |
| **7. Please give details of the primary audience for the book. Will it be used for teaching, research or both? Are there any secondary markets?** |
| The audience will primarily be current practitioners of seasonal adjustment who are interested in learning how to implement in R. This audience includes researchers from statistical agencies who are currently seasonal adjustmenters’ wanting to include scripting language features of R to evaluate properties of their adjustments. The audience also includes current R users who, for one reason or another, want to learn seasonal adjustment. This textbook can serve as their primary reference. |
| **8. If your book is a textbook, for which courses will it be the primary text? For which will it be supplementary reading?** |
| While the it wouldn’t be written to be a primary textbook for a course, it certainly could be used for a module in a time series or econometrics class. |
| **9. What competitive and/or related books are available? (If possible, please indicate author, title, publisher and publication year).** |
| There are no directly relevant competitors to the proposed textbook. There is a book that serves as a primary reference to the X-11 method, a single type of seasonal adjustment:  Seasonal Adjustment with the X-11 Method,Dominique Ladiray and Benoit Quenneville,2001**,** Springer-Verlag New York |
| **10. What advantages does your book have over those mentioned above, i.e. identify the niche that your book fills?** |
| This textbook will be implemented in R and include all code and data for users to get ‘hands-on’ with. Moreover, the proposed textbook will include *running* or X-13ARIMA-SEATS not just the *method* behind the software. |
| **ADDITIONAL DETAILS** |
| **11. Approximately how many printed pages will your book contain? Approximately how many figures?** |
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| **12. When would you hope to be able to submit the final draft of the book to us? And in which format, Latex or Word?** |
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| **13. Please give the names and e-mail addresses of four people who would be qualified to give an opinion on your proposed book. (We will not necessarily contact these people).** |
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| **TABLE OF CONTENTS** |
| **14. Please include a full table of contents, including chapter sub-headings and/or chapter abstracts.** |
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