Clovis Gladstone, Ph.D.

Curriculum Vitae

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The ARTFL Project
The University of Chicago
5720 S. Woodlawn, room #108
Chicago, IL 60637

EDUCATION

2015 **Ph.D.** in French and Francophone Studies (received with honors)
Dept. of Romance Languages and Literatures, University of Chicago
Title: "Rousseau et la matérialité de l'existence"
Advisor: Robert Morrissey

2007 **Master** in History ("Mention Très bien")
Dept. of History, Université de Franche-Comté
Title: "Le règne d'Élisabeth (1558-1603) dans l'historiographie française du XVII$^{\text{ème}}$ au début du XIX$^{\text{ème}}$ siècle"
Advisor: Edmond Dziembowski

2004 **Maîtrise** in History ("Mention Très bien")
Dept. of History, Université de Franche-Comté
Title: "La Restauration (1660-1688) dans l'historiographie française du XVII$^{\text{ème}}$ et du XVIII$^{\text{ème}}$ siècle"
Advisor: Edmond Dziembowski

2003 **Licence** in History
Dept. of History, Université de Franche-Comté

PROFESSIONAL APPOINTMENTS

2017-present **Technical Director and Project Director** at the Textual Optics Lab, University of Chicago

2015-present **Technical Director and Lead Developer** at the ARTFL Project, University of Chicago

2015-2017 **Postdoctoral Scholar** at the Computation Institute, University of Chicago

2013-2015 **Assistant Developer-Researcher** at the Computation Institute, University of Chicago

2008-2013 **Digital Humanities Developer** at the ARTFL Project, University of Chicago

PUBLICATIONS

BOOKS:

2020 *Rousseau et le matérialisme*, Oxford University Studies in the Enlightenment, Voltaire Foundation in association with Liverpool University Press, forthcoming August 2020

BOOK CHAPTERS:

2020 "Opening New Paths for Scholarship: Algorithms to Track Text Reuse in ECCO", with Charles Cooney, in *Digitizing Enlightenment: Digital Humanities and the Transformation of Eighteenth-Century Studies*, Simon Burrows & Glenn Roe ed., Oxford University Studies in the Enlightenment, Voltaire Foundation in association with Liverpool University Press, forthcoming 2020

2012 "Le tout est bien: du religieux au politique chez J-J Rousseau", *in "*Une heure avec Rousseau" in the collection "Les Heures", éditions Xenia, June 2012

JOURNAL ARTICLES:

2017 "Le Dictionnaire vivant de la langue française, un dictionnaire communautaire", with Timothy Allen and Charles Cooney, Repères Do-Ri-F, n.14, "Dictionnaires, culture numérique et décentralisation de la norme dans l'espace Francophone", December 2017

2016 "La Littérature à l'âge des algorithmes," with Robert Morrissey and Glenn Roe, Revue d'Histoire littéraire de la France, vol. 116, no 3 (2016): 595-617.

2016 "Constructive Visual Analytics for Text Similarity Detection" with Alfie Abdul-Rahman, Glenn Roe, Mark Olsen, Robert Morrissey, Nicholas Cronk, and Min Chen, Computer Graphics Forum (February 2016). doi:10.1111/cgf.12798

2016 "Discourses and Disciplines in the Enlightenment: Topic Modeling the French Encyclopédie", with Glenn Roe and Robert Morrissey, Frontiers in Digital Humanities, Vol. 2, 2016

2013 "PhiloLogic4: an Abstract TEI Query System", with Timothy Allen and Richard Whaling, Journal of the Text Encoding Initiative, Issue 5, June 2013

2010 "Le citoyen et l'*Encyclopédie*", Dix-Huitième Siècle, numéro 42, 2010

AWARDS & HONORS

2019 **Digital Advancement NEH grant:** awarded by the National Endowment for the Humanities, Aug. 2019 (Technical Director, ARTFL)

2019 **Voltaire Foundation Visiting Fellow,** April-May 2019

2016 **Neubauer Collegium Research grant**: awarded by the Neubauer Collegium at the University of Chicago to support the creation of the Textual Optics Lab (Project Director)

2014 **Mellon Foundation and Fondation Maison des Sciences de l'Homme grant**: awarded in the context of a Mellon/FMSH transatlantic program, Sept. 2014 (Lead Developer, ARTFL)

2014   **Digging into Data Challenge**: awarded by the Natl. Endowment for the Humanities, Jan. 2014
(Lead Developer, ARTFL)

2013   **Thomas Pavel Endowment Fund Award**: awarded by the University of Chicago, Mar. 2013

2007   **Graduate Aid Initiative**: awarded by the University of Chicago, Oct. 2007

2006   **Bourse de mérite**: awarded by the CROUS of Besançon, France, Oct. 2006

INVITED TALKS

2019   "Textual Optics Lab: a presentation", Chicago Colloquium on Digital Humanities and
Computer Science, University of Chicago, Nov 2019

2019   "La numérisation de l'Encyclopédie méthodique : bilan d'étape", with Robert Morrissey,
Mark Olsen, and Glenn Roe, Journée d'étude Panckoucke et l'Encyclopédie méthodique,
Paris, Sept 2019

2019   "Where is Rousseau? Tracking Enlightenment Thought in the Revolutionary Period", Besterman
Enlightenment Workshop, Voltaire Foundation, Oxford, May 2019

2018   "Finding text reuse within large corpora", International Dissemination Workshop, Fondation Maison
des Sciences de l'Homme, Paris, Octobre 2018

2017   "Digging into ECCO: Tracing Literary Text Reuse at Scale", International Conference on
Library and Digital Humanities, University Town Library of Shenzhen, December 2017

2017   "Effets d'optique textuelle à grande échelle: Les Champs du réemploi", with Didier
Alexandre, Jean-Gabriel Ganascia, Robert Morrissey et Glenn Roe, Colloque "Des Humanités
Littéraires", Centre Culturel International de Cerisy, Cerisy (France), Juin 2017

2016   "Textual Optics: Databases and Data-Mining at the ARTFL Project", with Robert Morrissey, Data in
Libraries: the big picture, University of Chicago, August 2016

2014   "Introduction à Jean-Jacques Rousseau et aux Humanités Numériques à l'ARTFL Project", Wheaton
College, Nov. 2014

2013   "Introduction à PhiloLogic et aux bases de données de l'ARTFL Project", Lycée Français de
Chicago, Jun. 2013

2011   "Introduction à l'ARTFL Project", Lycée Français de Chicago, Dec. 2011

CONFERENCE PAPERS

2019   "Text Reuse: The Curious Case of Robespierre and Rousseau", Digitizing Enlightenment 4, International Society for Eighteenth Century Studies (ISECS) Conference, Edinburgh, July 2019

2019   "Enlightenment Legacies: Sequence Alignment and Text Reuse at Scale", with Glenn Roe, Digital Humanities Conference 2019, Utrecht, July 2019

2018   "Modelling Eighteenth-Century Epistolarity: Unsupervised Classification of the Voltaire Correspondence", with Glenn Roe. Digital Humanities Congress, University of Sheffield, Sept. 2018.

2018   "Encyclopaedic Discourses Revisited: Integrating Topic Models in the 18th Century", with Glenn Roe, DH Benelux, International Institute for Social History, Amsterdam, June 2018

2018   "Les syntagmes prépositionnels à l'initiale de phrase dans L'Encyclopédie ou Dictionnaire raisonné des sciences, des arts et des métiers. Une étude sur corpus instrumenté", with Denis Vigier, Glenn Roe, and Robert Morrissey. Linguistic and Psycholinguistic Approaches to Text Structuring (LPTS) 2018, École Normale Supérieure, Paris, Jan. 2018.

2017   "Tracing Swerves Of Influence: Text Reuse And The Reception Of Lucretius In 18th-century England", with Charles Cooney, Digital Humanities Conference 2017, Montreal, August 2017

2017   "Navigating the Digital Edition of Raynal's Histoire des deux Indes", 48th American Society for Eighteenth-Century Studies Annual Meeting, Minneapolis, March 2017

2016   "*Omnia aurea dicta* — Examining reception of Lucretius in 18th-century England using ARTFL's ECCO alignment database", with Charles Cooney, Chicago Colloquium on Digital Humanities and Computer Science, University of Illinois at Chicago, Nov 2016

2016   "Le Dictionnaire Vivant de la Langue Française, un dictionnaire communautaire", with Charles Cooney and Timothy Allen, Colloque international "Dictionnaires, culture numérique et décentralisation de la norme dans l'espace francophone", Université de Sherbrooke, Sept. 2016

2016   "Digging into ECCO: Identifying Commonplaces and other Forms of Text Reuse at Scale", with Robert Morrissey, Mark Olsen, Glenn Roe, Digital Humanities Conference 2016, Jagiellonian University (Krakow, Poland), July 2016

2015   "Early Modern Information Overload: Commonplaces and Compilations in Eighteenth Century Collections Online", with Robert Morrissey, Mark Olsen, Glenn Roe, Chicago Colloquium on Digital Humanities and Computer Science (Chicago, IL). Nov. 2015

2015   "Le devoir de tout lire", with Robert Morrissey, Mark Olsen, Glenn Roe, Colloque international "Vers une littérature mondiale à l'heure du numérique ?", Maison de la Recherche Paris-Sorbonne (Paris, France). Sept./Oct. 2015

2015   "Visualizing Text Alignments: Image Processing Techniques for Locating 18th-Century

Commonplaces", with Glenn Roe, Alfie Abdul-Rahman, Min Chen, Robert Morrissey, and Mark Olsen, Digital Humanities Conference 2015 (Sydney, Australia). Jun./Jul. 2015

2014 "Discourses and Disciplines in the Enlightenment: Topic Modeling the French Encyclopédie", with Glenn Roe, Robert Morrissey, Digital Humanities Conference 2014 (Lausanne, Switzerland). Jul. 2014

2011 "Context-based Navigation: Revisiting Search in the Encyclopédie", Encyclopédie Colloquium, New York University (New York, NY). Mar. 2011

2010 "Discovering Topics: Latent Dirichlet Allocation, and its Uses in the Digital Humanities", Encyclopédie Colloquium, University of Virginia (Charlottesville, VA). Apr. 2010

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2010 "Malebranche et l'épistémologie de Montesquieu", Montesquieu and the Uses of Nobility, University of Chicago (Chicago, IL). Mar. 2010

2009 "Topic Modeling and Classification of an Unclassified Corpus", Chicago Colloquium on Digital Humanities and Computer Science, Illinois Institute of Technology (Chicago, IL). Nov. 2009

2009 "Le citoyen et l'Encyclopédie", Encyclopédie Colloquium, University of Minnesota (Minneapolis, MN). Apr. 2009

2008 "Citoyen et patriotisme dans l'Encyclopédie", Encyclopédie Colloquium, University of Chicago (Chicago, IL). Mar. 2008

CAMPUS TALKS

2018 "Text-Align: Detecting Text-Reuse in Large Corpora", DH Forum, University of Chicago (Chicago, IL), May 2018

2016 "DH at scale: the art of the database at the ARTFL Project", Macroanalysis in the Humanities Working Group, University of Chicago (Chicago, IL), Jan. 2016

2015 "PhiloLogic4 and the ARTFL Project", with Richard Whaling, DH Forum, University of Chicago, Mar. 2015

2014 "Jean-Jacques aux prises avec le dehors", Interdisciplinary Approaches to Modern France and the Francophone World, University of Chicago, Mar. 2014

2012 "Le déterminisme autobiographique chez Rousseau: une analyse matérialiste malgré lui", Interdisciplinary Approaches to Modern France, , University of Chicago, May 2012

POSTER PRESENTATIONS

2017 **"**What's in a word? Exploring words and their usage in the "Dictionnaire Vivant de la Langue Française", with Timothy Allen and Charles Cooney, Digital Humanities Conference 2017,

Montreal, August 2017

2015 "PhiloLogic4 and the Android PhiloReader Apps: Toward Building a Full-Featured PhiloLogic API",

with Charles Cooney, Walter Shandruk, Glenn Roe and Robert Morrissey, Digital Humanities Conference 2015 (Sydney, Australia). Jun./Jul. 2015

2014 "The PhiloLogic4 API and Android PhiloReader Apps", with Charles Cooney and Walter Shandruk, Chicago Colloquium on Digital Humanities and Computer Science, Northwestern University (Evanston, IL). Oct. 2014

2010 "Le Dictionnaire vivant de la langue française: An experimental approach to dictionary compilation", with Tim Allen, Charles Cooney, Russell Horton, Glenn Roe, Robert Morrissey, and Mark Olsen, Chicago Colloquium on Digital Humanities and Computer Science, Northwestern University (Evanston, IL). Nov. 2010

TEACHING EXPERIENCE

UNIVERSITY OF CHICAGO:

2017 **Instructor for a Digital Humanities course (**Spring 2017)
"Introduction to Digital Humanities: text processing and data-mining in Python"
Designed, prepared and taught all course material.

2016 **Instructor for a Digital Humanities course (**Winter 2016)
"Digital Humanities/Digital History"
Taught in collaboration with two other instructors.
Designed, prepared and taught sections on text processing and data-mining
and machine-learning.

2009-2013 **Instructor for French 101, 102, 103, 201, 202, 203** (Fall, Winter, Spring 2009-2013)
Taught beginner/intermediate/advanced grammar and culture

2012 **Instructor for a Literature course** (Spring 2012)
"Introduction to French Literature: La littérature à l'âge des Lumières"
Designed, prepared and taught an introductory level literature class

2011 **Course Assistant for Introduction to French Literature** (Fall 2011)
Assisted in grading of students' assignments and taught a class on Pascal

2010 **Course Assistant for Classics of Social and Political Thought, Languages Across The Curriculum (**Winter 2010)
Designed, prepared and taught a class based on 17th and 18th century Political Philosophy.

2009 **Course Assistant for Introduction to French Literature** (Spring 2009)
Assisted in grading of students' assignments and taught several classes on *Candide*

2009   **Language Assistant for French 203-204** (Winter 2009)
                 Developed class material and taught intermediate conversation classes based on the study of
                 the *Lettres persanes* (French 203-204).

CENTRE DE LINGUISTIQUE APPLIQUÉE (Besançon, France):
2004 & 2006 **English Instructor:** August 2004 & 2006
                 Taught English class to intermediate French Students.

PEDAGOGICAL TRAINING

2009-2013   Full annual participation to the Pedagogy Workshop of the Department of Romance
                 Languages and Literatures at the University of Chicago

2008   Completion of "Foreign Language Acquisitions Research and Teaching" at the
                 University of Chicago (Professor Nadine Di Vito)

DIGITAL PROJECTS

2017-present As Technical Director and Project Director of the Textual Optics Lab:
- Day-to-day management of operations at the Textual Optics Lab
- Development of Natural Language Processing and Machine-Learning methods for text analysis:
  - Development of text-reuse detection tool (TextPAIR) built for scale (more than 100,000 texts)
  - Development of a Topic Modeling Browser for navigating large collections of texts.
- Development work on the next version of PhiloLogic
- Management and mentoring of junior Digital Humanities developers

2015-present As Technical Director and Lead Developer of the ARTFL Project:
- Lead development for the Intertextual Hub (NEH grant): building a platform for combining intertextual links across many text collections
- Lead development for the Enlightenment Legacies project (Mellon grant): built a text-reuse database for over 130,000 texts.
- Research into experimental methods for allusion detection: built a tool capable of finding passage alluding to Rousseau's *Social Contract* in French revolutionary parliamentary debates.

2015-2017   As a Postdoctoral Scholar at the Computation Institute:
- Continued development and enhancement of PhiloLogic4
- Complete rewrite of the *Dictionnaire Vivant de la Langue Française* in Go and AngularJS. Use of machine-learning tools (word embeddings libraries) to add more content to the dictionary

2013-2015   As Assistant Developer-Researcher at the Computation Institute:

- Development of server-side and client-side search and retrieval components for PhiloLogic4 in Python (including user-facing search reports and a RESTful API)
- Development of methods to detect duplicate works in a database of 200,00 OCR texts: leverage of vector space similarity tools available in the Python Numpy/Scipy libraries in the context of a Digging into Data grant on "Commonplace Cultures: Mining Shared Passages in the 18th Century using Sequence Alignment and Visual Analytics"
- Conducted discourse analysis in 18th century literature using topic modeling
- Administered Red Hat Linux servers, which included server management, security, and backups.

2008-2013   As Digital Humanities developer at the ARTFL Project:
- Extensive research on topic modeling as a word exploder, a similarity measure, and a text segmenter.
- Development of the *Dictionnaire Vivant de la Langue Française* (DVLF), an online aggregation of French dictionaries with a strong focus on community involvement
- Development of PhiloLogic4 (TEI-XML search engine): work on the core library and the web interface
- Development of data-mining tools based on the Numpy and Scipy libraries for future integration in PhiloLogic4

TECHNICAL SKILLS

PROGRAMING LANGUAGES:
- Proficient: Python, Golang, JavaScript, HTML, CSS, SQL
- Familiar with: Perl, Bash
- Ability to learn new programming languages as the need arises.

TEXT PROCESSING AND MACHINE-LEARNING:
- Excellent understanding of structured text formats such as HTML, XML, TEI or EPUB.
- Extensive experience writing parsers for structured documents using well-known libraries such as LXML, or Beautiful Soup, or custom solution if desirable (PhiloLogic).
- Extensive experience and understanding search engine technologies (ranked relevance, concordances, collocations) as the lead developer of PhiloLogic.
- Development of data-mining methods for text analysis: Natural Language Processing, Unsupervised Learning, Sequence Alignment

DATABASE DESIGN AND DEVELOPMENT:
- SQLite: extensive experience developing database designs and optimizations for the PhiloLogic search engine, as well as more simple database applications.
- MySQL: Longtime experience working prototypes and production designs such as in the Commonplace Cultures project, which involved building and optimizing a database of over 50 million text reuses.
- PostgreSQL: extensive experience leveraging PostgreSQL's many features and custom index structures. Currently using PostgreSQL for the DVLF dictionary, TextPAIR and the Topic Modeling Browser.

WEB DEVELOPMENT:

- Very experienced in application back-end development:
  - in Python using Flask (such as in TextPAIR, or the Topic Modeling Browser), or building custom WSGI applications (such as in PhiloLogic)
  - In Golang: built several server server-side applications delivering content through a RESTful API using built-in library and external libraries such as Gin (such as in the Commonplace Cultures site) or Echo (such as in the DVLF site)
- Very experienced in application front-end development using:
  - jQuery (PhiloLogic), AngularJS (PhiloLogic), VueJS (DVLF, TextPAIR, Topic Modeling Browser) for application logic
  - CSS frameworks such as Bootstrap, Foundation, Material Design Lite for design and layout of web application for all form factors, from desktop to mobile phones (responsive design).

UNIVERSITY AND DEPARTMENT SERVICE

2015   **Conference Chair of the Chicago Colloquium on Digital Humanities and Computer Science,** November 2015

2009-present Regular intervention in Literature classes to introduce students to the Digital Humanities and the ARTFL Project (University of Chicago)

2010-2011   **Co-Coordinator, Interdisciplinary Approaches to Modern France Workshop :** September 2010 – June 2011

LANGUAGES

French: native
English: native
German: conversational, can read with dictionary
Italian: conversational, can read with dictionary